STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT ☑

APPLICATION FOR PERMIT TO DRILL	1. WELL NAME and NUMBER: BONANZA 9-25-12-20
2. TYPE OF WORK: DRILL NEW WELL ◉ REENTER P&A WELL ○ DEEPEN WELL ○	3. FIELD OR WILDCAT: WILDCAT
4. TYPE OF WELL: Gas Well Coalbed Methane Well: NO	5. UNIT or COMMUNITIZATION AGREEMENT NAME: BONANZA
6. NAME OF OPERATOR: Enduring Resources, LLC	7. OPERATOR PHONE: 303 350-5114
8. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500, Denver, CO, 80202	9. OPERATOR E-MAIL: aarlian@enduringresources.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE): ML-45558	11. MINERAL OWNERSHIP: FEDERAL ○ INDIAN ○ STATE ◉ FEE ○
	12. SURFACE OWNERSHIP: FEDERAL ○ INDIAN ○ STATE ◉ FEE ○
13. NAME OF SURFACE OWNER (if box 12 = 'fee')	14. SURFACE OWNER PHONE (if box 12 = 'fee')
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')	16. SURFACE OWNER E-MAIL (if box 12 = 'fee')
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')	18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS: YES ○ (Submit Commingling Application) NO ◉
	19. SLANT: VERTICAL ◉ DIRECTIONAL ○ HORIZONTAL ○

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1952 FNL 472 FWL	SWNW	20	9.0 S	25.0 E	S
Top of Uppermost Producing Zone	1952 FNL 472 FWL	SWNW	20	9.0 S	25.0 E	S
At Total Depth	1952 FNL 472 FWL	SWNW	20	9.0 S	25.0 E	S

21. COUNTY	22. DISTANCE TO NEAREST LEASE LINE (Feet)	23. NUMBER OF ACRES IN DRILLING UNIT
UINTAH	472	640
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed): 1300	26. PROPOSED DEPTH: MD: 6010 TVD: 6010
27. ELEVATION - GROUND LEVEL: 5665	28. BOND NUMBER: RLB0008031	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE: 49-222

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORCANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	☑ COMPLETE DRILLING PLAN
☑ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
☐ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	☑ TOPOGRAPHICAL MAP

NAME Alvin Arlian	TITLE Landman-Regulatory	PHONE 303 350-5114
SIGNATURE	DATE 03/17/2009	EMAIL aarlian@enduringresources.com
API NUMBER ASSIGNED: 43047502590000	APPROVAL: Permit Manager	

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Cond	20	14	0	40		
Pipe	**Grade**	**Length**	**Weight**			
	Grade J-55 ST&C	40	54.5			

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Surf	11	8.625	0	2000		
Pipe	**Grade**	**Length**	**Weight**			
	Grade J-55 ST&C	2000	24.0			

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Prod	7.875	4.5	0	6010		
Pipe	**Grade**	**Length**	**Weight**			
	Grade N-80 LT&C	6010	11.6			

Enduring Resources, LLC
Bonanza #9-25-12-20
SWNW Sec. 20 T9S-R25E
Uintah County, Utah
Lease # ML-45558

ONSHORE ORDER 1 - DRILLING PLAN

1. Estimated Tops of Geological Markers:

Formation	Depth (K.B.)
Uinta	Surface
Green River	285'
Wasatch	2,440'
Mesaverde	3,790'
Buck Tongue	5,960'

2. Estimated Depths of Anticipated Water, Oil, Gas or Other Minerals: (5685' estimated KB)

Substance	Formation	Depth (K.B.)
	KB-Uinta Elevation: 5,665'	
Oil / Gas	Green River	285'
Oil /Gas	Wasatch	2,440'
Oil /Gas	Mesaverde	3,790'
	Estimated TD	6,010'

An 11" hole will be drilled to approximately 2000 feet. The depth will be determined by the depth that the Birds Nest zone is encountered. The hole will be drilled 400 feet beyond the top of the Birds Nest zone and surface casing will be set.

3. Pressure Control Equipment: (3000 psi schematic attached)

A. Type: Eleven (11) inch double gate hydraulic BOP with eleven (11) inch annular preventer on 3,000 psi casinghead, with 3,000 psi choke manifold equipped per the attached diagram. BOPE as specified in *Onshore Oil & Gas Order Number 2.* A PVT, stroke counter and flow sensor will be installed to check for flow and monitor pit volume.

B. Pressure Rating: 3,000 psi BOPE

C. Kelly will be equipped with upper and lower Kelly valves.

D. Testing Procedure: Annular Preventer

At a minimum, the annular preventer will be pressure tested to 50% of the stack rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition to the above, the annular preventer will be functionally operated at least weekly.

Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition to the above, the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

E. Miscellaneous Information:

The blowout preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2.*

Directional surveys will be dropped every 2000 feet. Maximum allowable angle is 5 degrees.

4. Proposed Casing & Cementing Program:

A. Casing Program: All New

Hole Size	Casing Size	Wt./Ft.	Grade	Joint	Depth Set (md)
20"	14" O.D.				40'
11"	8-5/8"	24#	J-55	ST&C	0 – 2,000' est
7-7/8"	4-1/2"	11.6#	N-80	LT&C	0 – 6,019'

The surface casing will have guide shoe, 1 jt., insert float collar. Centralize the shoe joint with bowspring centralizers in the middle and top of the joint and the next 16 joints with bowspring centralizers on every other collar (8 centralizers total). Thread lock guide shoe.

Casing string(s) will be pressure tested to 0.22 psi/foot of casing string length or 1500 psi, whichever is greater (not to exceed 70% of the internal yield strength of the casing), after cementing and prior to drilling out from under the casing shoe.

B. Casing Design Parameters:

Depth (md)	Casing	Collapse(psi)/SF	Burst (psi)/SF	Tension(mlbs)/SF
40'	14"			
2000'	8-5/8", 24#/ft, J55, STC	1370/1.53(a)	2950/3.30(b)	244/5.85(c)
6,010	4-1/2", 11.6#/ft, N-80, LTC	6350/2.03 (d)	7780/2.70 (e)	223/3.72 (f)

(a.) based on full evacuation of pipe with 8.6 ppg fluid on annulus
(b.) based on 8.6 ppg gradient with no fluid on annulus
(c.) based on casing string weight in 8.6 ppg mud
(d.) based on full evacuation of pipe with 10.0 ppg fluid on annulus
(e.) based on 9.2 ppg gradient, gas to surface, with no fluid on annulus, no gas gradient
(f.) based on casing string weight in 9.2 ppg mud

PROPOSED CEMENTING PROGRAM

Surface Casing (if well will circulate) - Cemented to surface

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft^3/sx)
8-5/8"	Lead	1500	Premium cement, + 16% gel, + 0.25 pps celloflake	136	25%	11.1	3.50
8-5/8"	Tail	500	Premium cement +2% CaC_2 +0.25 pps celloflake	138	25%	15.8	1.15

A cement top job is required if cement fallback is greater than 10' below ground level. Top job (weight 15.8 ppg, yield 1.15 ft^3/sx) cement will be premium cement w/ 3% $CaCl_2$.+0.25 pps celloflake. Volume as required

Surface Casing (if well will not circulate) - Cemented to surface

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft^3/sx)
8-5/8"	Lead	500	Premium cement + 2% $CaCl_2$ + 0.25 pps celloflake	138	25	15.8	1.15
8-5/8"	Top job	As req.	Premium cement + 3% $CaCl_2$, + 0.25 pps celloflake	As Req.		15.8	1.15

Production Casing and Liner - Cemented TD to 300' above base of surface casing

CASING	SLURRY	FT. of FILL	CEMENT TYPE	SXS	EXCESS (%)	WEIGHT (ppg)	YIELD (ft^3/sx)
4-1/2"	Lead	740	Class "G", + 5% NaCl, + 12% Gel, +0.25 pps celloflake, + 0.2% antifoam, +0.25% fluid loss + 1% extender	56	25	11.0	3.91
4-1/2"	Tail	3579	50/50 POZ Class G + 2% gel, +1% $CaCl_2$ + 0.2% dispersant, + 0.2% fluid loss, + 0.1% antifoam	790	25	14.1	1.29

Cement volumes for the 4-1/2" Production Casing will be calculated to provide a top of cement to 300' above base of surface casing. Cement volumes are approximate and were calculated under the assumption that a gauge hole will be achieved. Actual cement volumes may vary due to variations in the actual hole size and will be determined by running a caliper log on the drilled hole. Actual cement types may vary due to hole conditions and cement contractor used.

All waiting on cement (WOC) times will be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

5. **Drilling Fluids (mud) Program:**

Interval	Mud Weight	Fluid Loss	Viscosity	Mud Type
0' – 2000'		No cntrl		Air/mist
2000'-3000'	8.4-8.6	No cntrl	28-36	Water
3000'-6010'	8.8-10.2	8 - 10 ml	32-42	Water/Gel

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blowout will be available at the well site during drilling operations.

6. Evaluation Program:

Tests: No tests are currently planned.

Coring: No cores are currently planned.

Samples: No sampling is currently planned.

Logging

- Dual Induction – SFL /Gamma Ray/Caliper/SP/TDLT/CNL/ML
  TD to Base Surface Casing
- Cement Bond Log / Gamma Ray:
  TD to Base of Surface Casing or Top of Cement if below Base of Surface Casing

Stimulation: A stimulation or frac treatment will be designed for completion of this well based on openhole log analysis. The drill site, as approved, will be sufficient size to accommodate all completion activities.

7. Abnormal Conditions:

No abnormal temperatures or pressures are anticipated. No H_2S has been encountered or known to exist from previous wells drilled to similar depths in the general area.

Maximum anticipated bottom hole pressure equals approximately 3,130 psi (calculated at 0.52 psi/foot of hole) and maximum anticipated surface pressure equals approximately 1,806 psi (anticipated bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot of hole).

8. Anticipated Starting Dates:

- Anticipated Commencement Date- Within one year of APD issue.
- Drilling Days- Approximately 10 days
- Completion Days - Approximately 10 days
- Anticipate location construction within 30 days of permit issue.

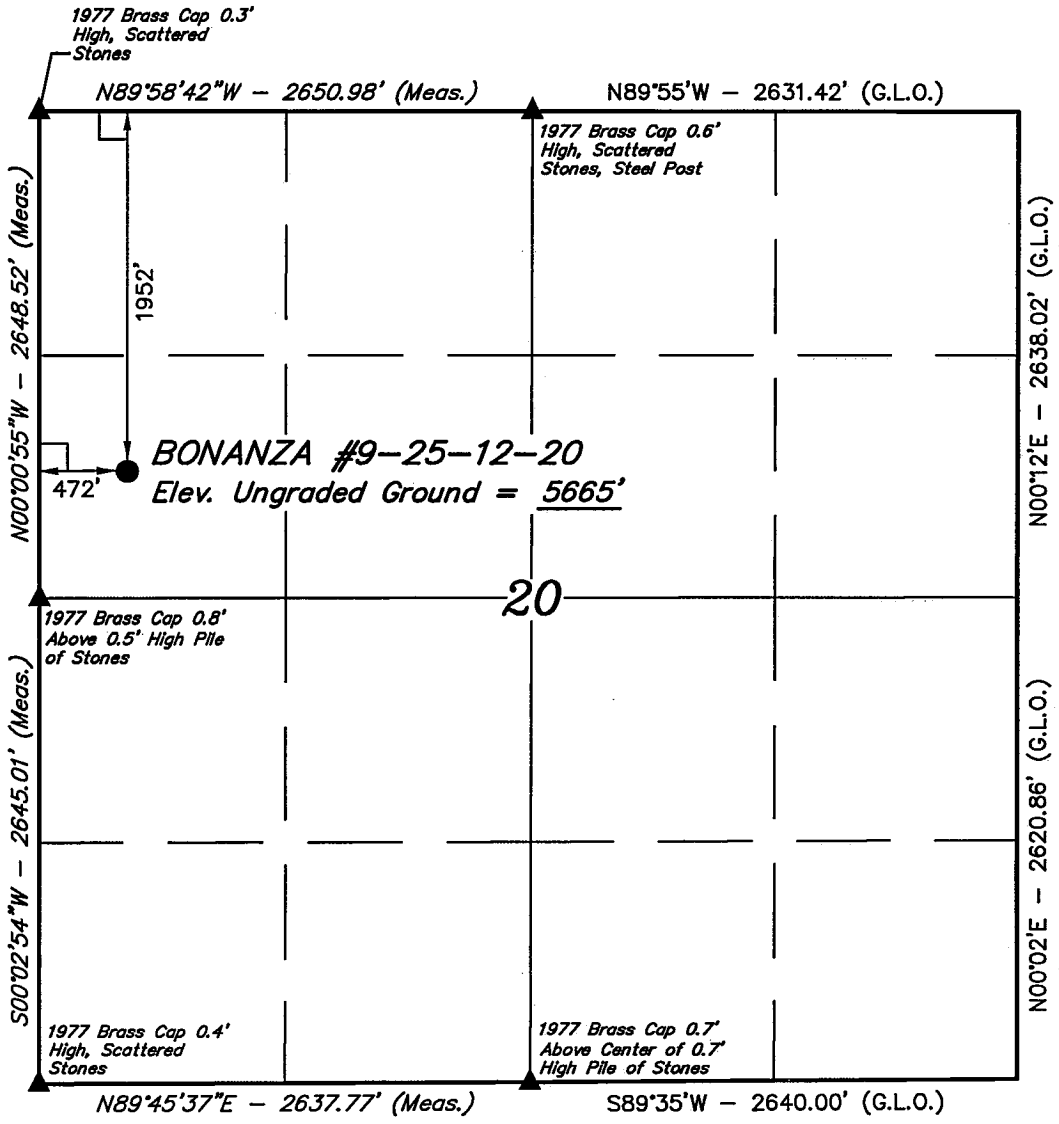
9. Variances:

None anticipated

10. Other:

A Cultural Resource Inventory and Paleontology reconnaissance shall be conducted for the well location, access route and pipeline. The reports shall be submitted to the Division of Oil, Gas and Mining and the School and Institutional Trust lands Administration upon their receipt.

T9S, R25E, S.L.B.&M.



LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(AUTONOMOUS NAD 83)
LATITUDE = 40°01'23.79" (40.023275)
LONGITUDE = 109°07'57.69" (109.132692)
(AUTONOMOUS NAD 27)
LATITUDE = 40°01'23.91" (40.023308)
LONGITUDE = 109°07'55.28" (109.132022)

ENDURING RESOURCES, LLC

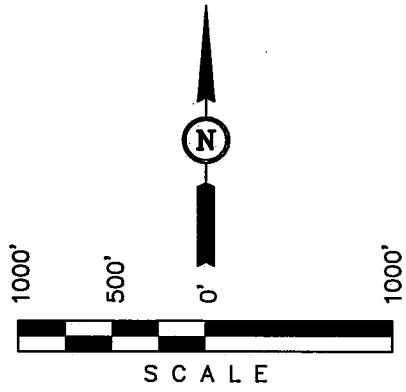
Well location, BONANZA #9–25–12–20, located as shown in the SW 1/4 NW 1/4 of Section 20, T9S, R25E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK (45 EAM) LOCATED IN THE NW 1/4 SW 1/4 OF SECTION 34, T8S, R24E, S.L.B.&M. TAKEN FROM THE BONANZA, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5350 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED J.H. 01–08–09

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789–1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	09–12–05	09–19–05
PARTY: N.H. D.S. P.M.	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: ENDURING RESOURCES, LLC	

'APIWellNo:43047502590000'

’APIWellNo:43047502590000’

ENDURING RESOURCES, LLC

BONANZA #9-25-12-20

LOCATED IN UINTAH COUNTY, UTAH
SECTION 20, T9S, R25E, S.L.B.&M.

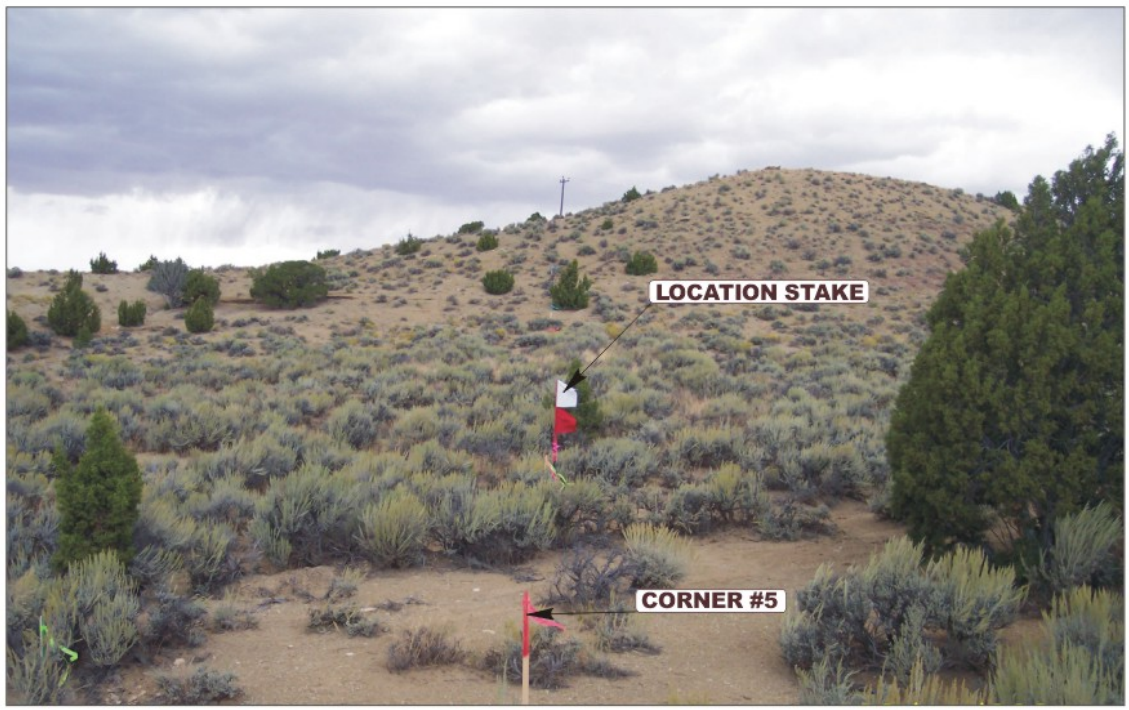


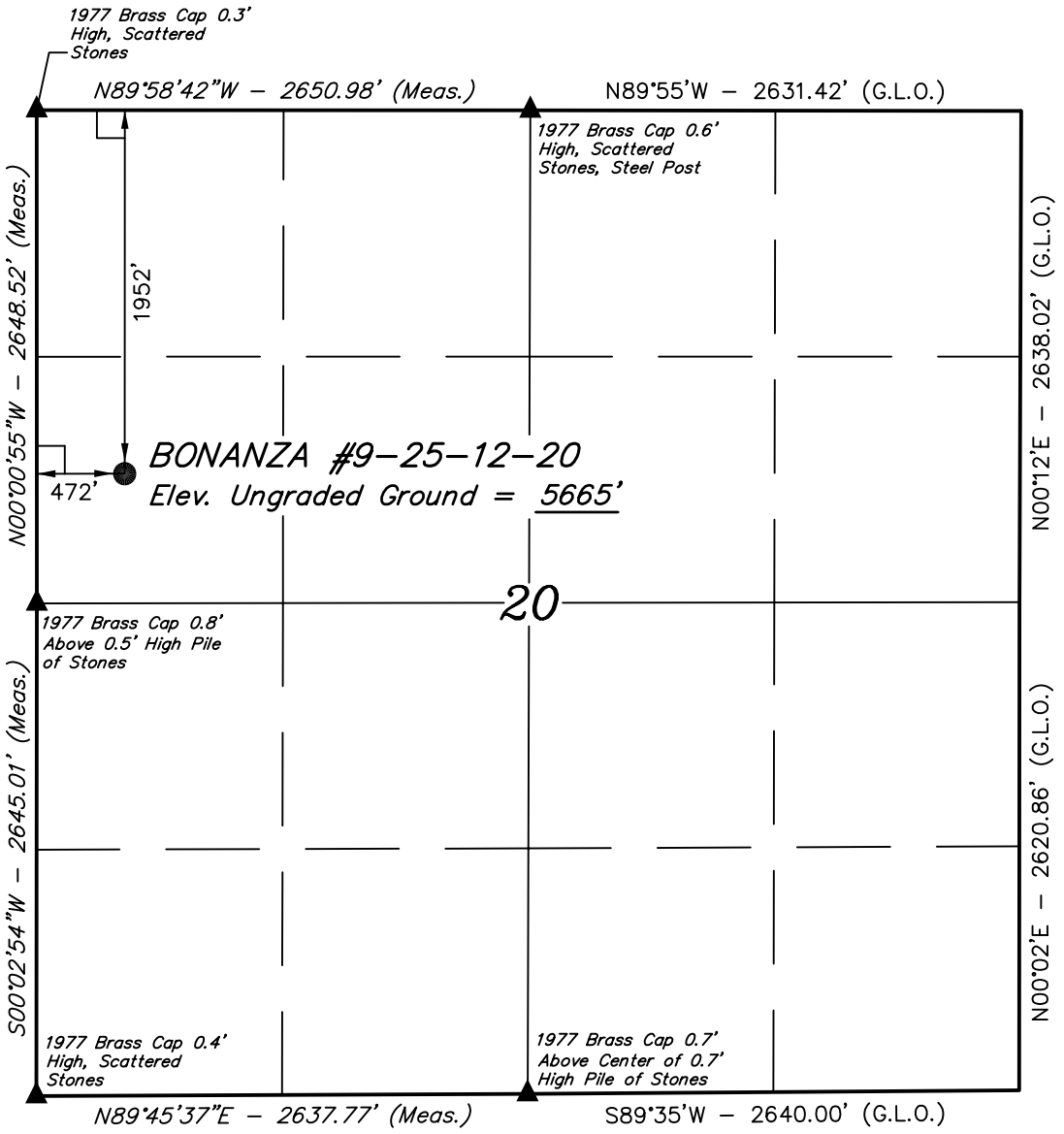
PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE — CAMERA ANGLE: NORTHWESTERLY

PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS — CAMERA ANGLE: WESTERLY

- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	09 MONTH	13 DAY	05 YEAR	PHOTO
TAKEN BY: N.H.	DRAWN BY: C.P.	REV: J.H. 01-08-09		

T9S, R25E, S.L.B.&M.



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(AUTONOMOUS NAD 83)
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ENDURING RESOURCES, LLC

Well location, BONANZA #9-25-12-20, located as shown in the SW 1/4 NW 1/4 of Section 20, T9S, R25E, S.L.B.&M. Uintah County, Utah.

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BASIS OF BEARINGS

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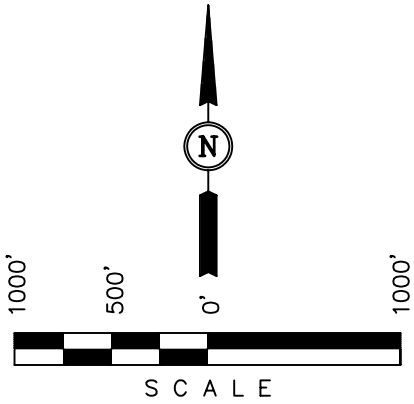

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REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED J.H. 01-08-09

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789-1017

SCALE	DATE SURVEYED:	DATE DRAWN:
1" = 1000'	09-12-05	09-19-05
PARTY: N.H. D.S. P.M.	REFERENCES: G.L.O. PLAT	
WEATHER: WARM	FILE: ENDURING RESOURCES, LLC	

'APIWellNo:43047502590000'

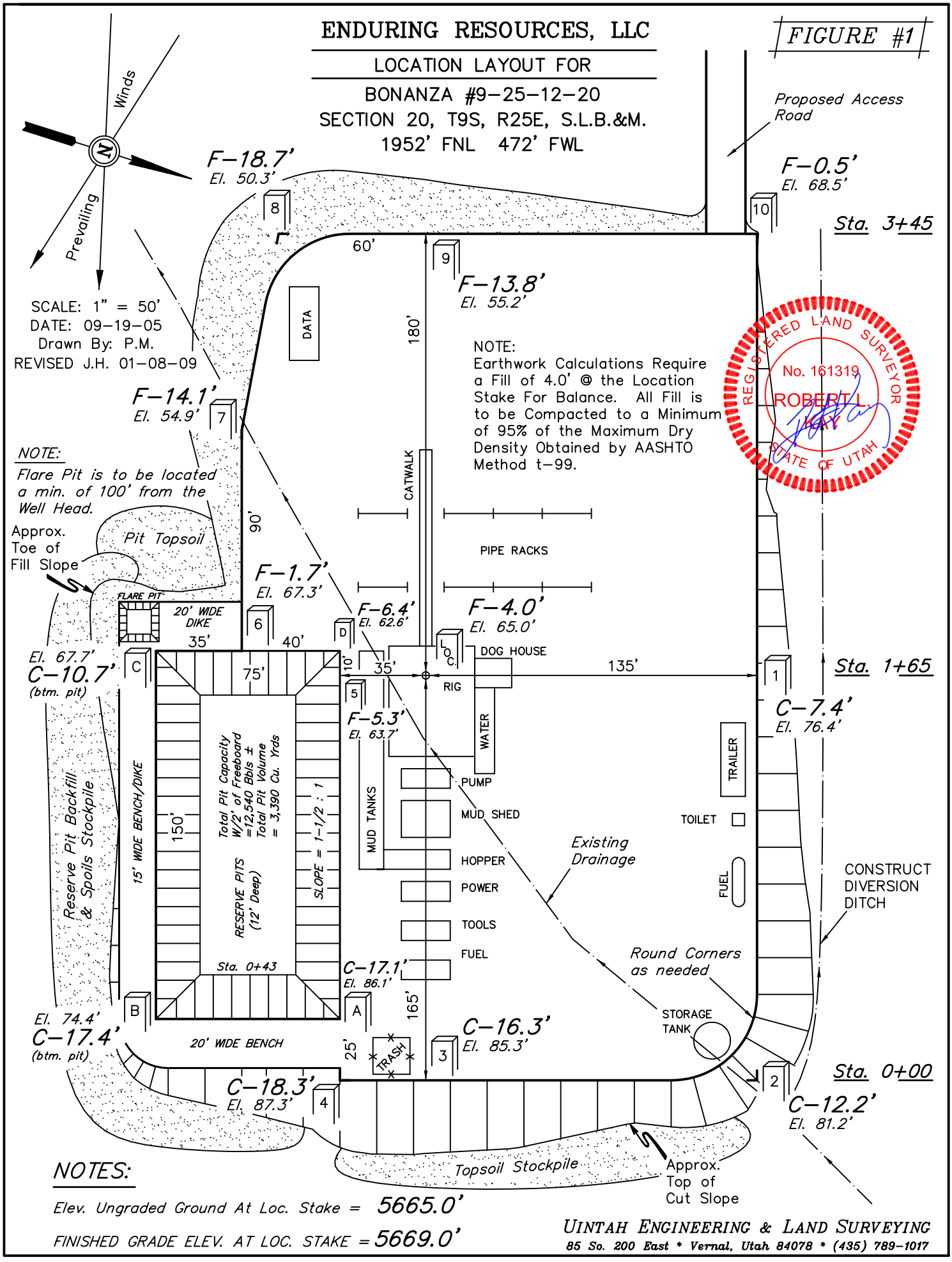
'APIWellNo:43047502590000'

ENDURING RESOURCES, LLC

LOCATION LAYOUT FOR

BONANZA #9-25-12-20
SECTION 20, T9S, R25E, S.L.B.&M.
1952' FNL 472' FWL

FIGURE #1



NOTES:

Elev. Ungraded Ground At Loc. Stake = 5665.0'

FINISHED GRADE ELEV. AT LOC. STAKE = 5669.0'

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85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

'APIWellNo:43047502590000'

ENDURING RESOURCES, LLC

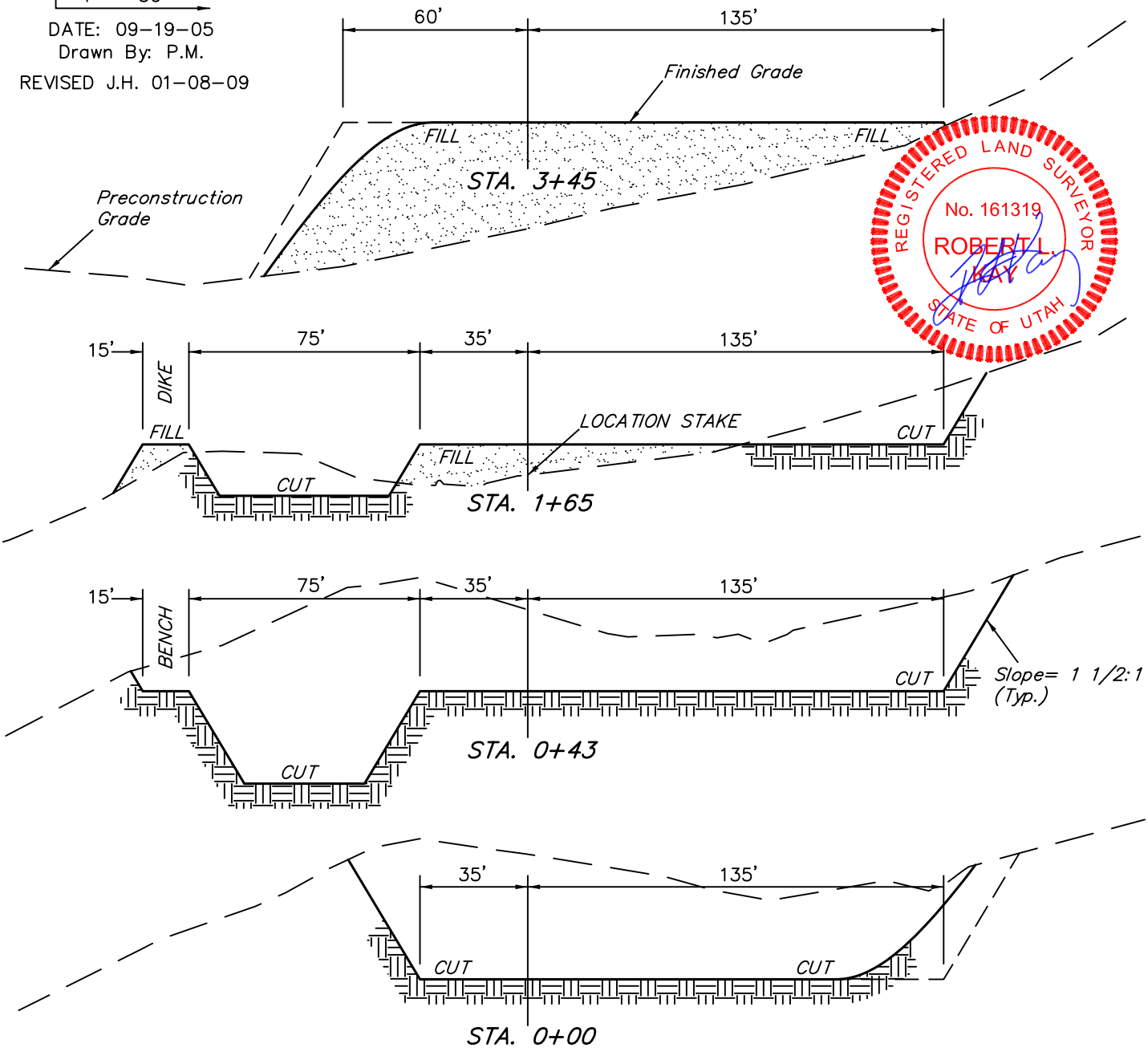
TYPICAL CROSS SECTIONS FOR

BONANZA #9-25-12-20
SECTION 20, T9S, R25E, S.L.B.&M.
1952' FNL 472' FWL

FIGURE #2

1" = 20'
X-Section Scale
1" = 50'

DATE: 09-19-05
Drawn By: P.M.
REVISED J.H. 01-08-09



REGISTERED LAND SURVEYOR
No. 161319
ROBERT L.
STATE OF UTAH

* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = 1,920 Cu. Yds.
Remaining Location = 14,130 Cu. Yds.

TOTAL CUT = 16,050 CU.YDS.
FILL = 12,430 CU.YDS.

EXCESS MATERIAL = 3,620 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 3,620 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation) = 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

ENDURING RESOURCES, LLC
BONANZA #9-25-12-20
SECTION 20, T9S, R25E, S.L.B.&M.

PROCEED IN AN EASTERLY, THEN SOUTHERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.9 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 36.5 MILES ON STATE HIGHWAY 45 TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.25 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING TWO-TRACK ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATLEY 1.4 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 46.15 MILES.

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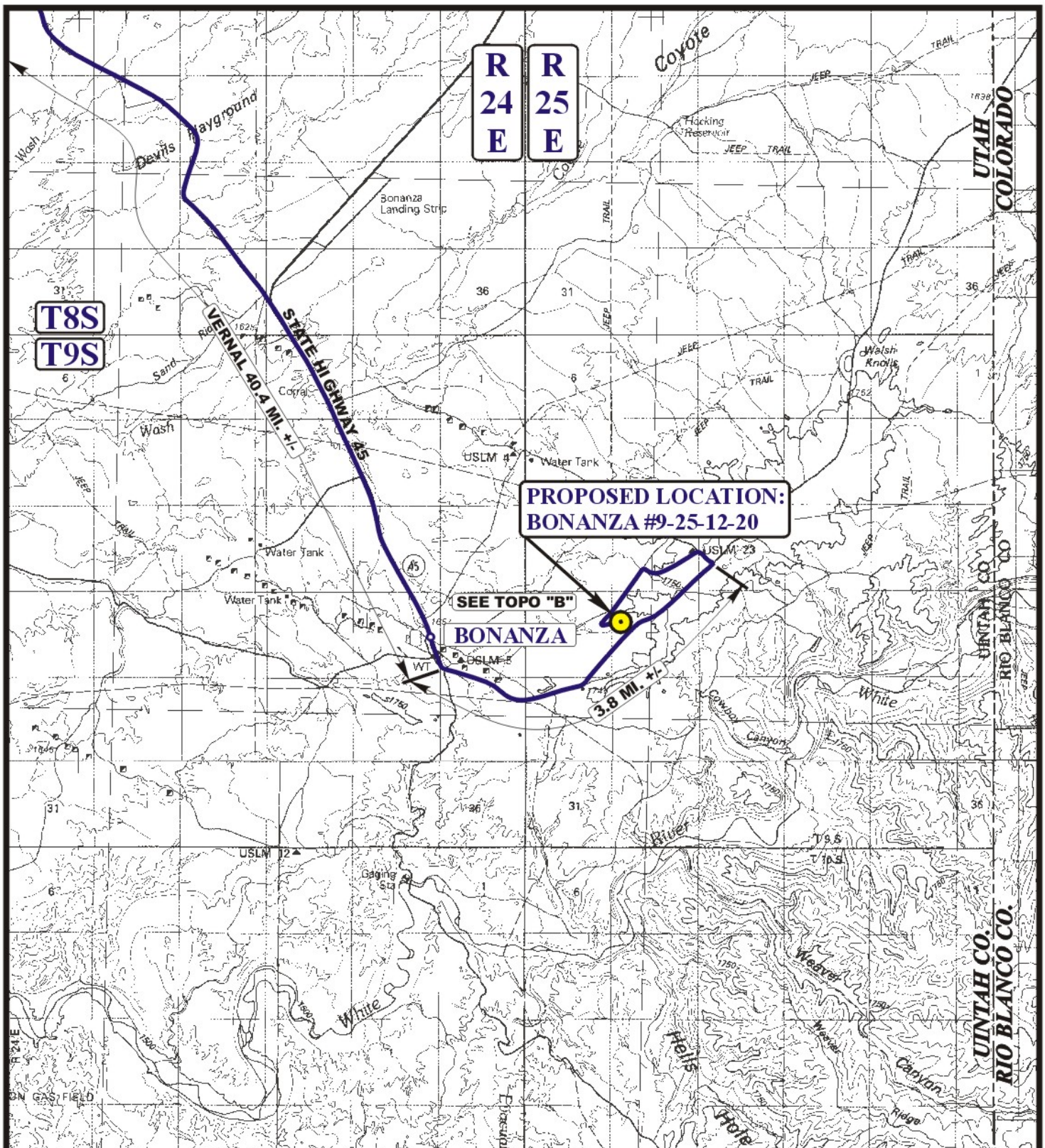


LEGEND:

PROPOSED LOCATION

N

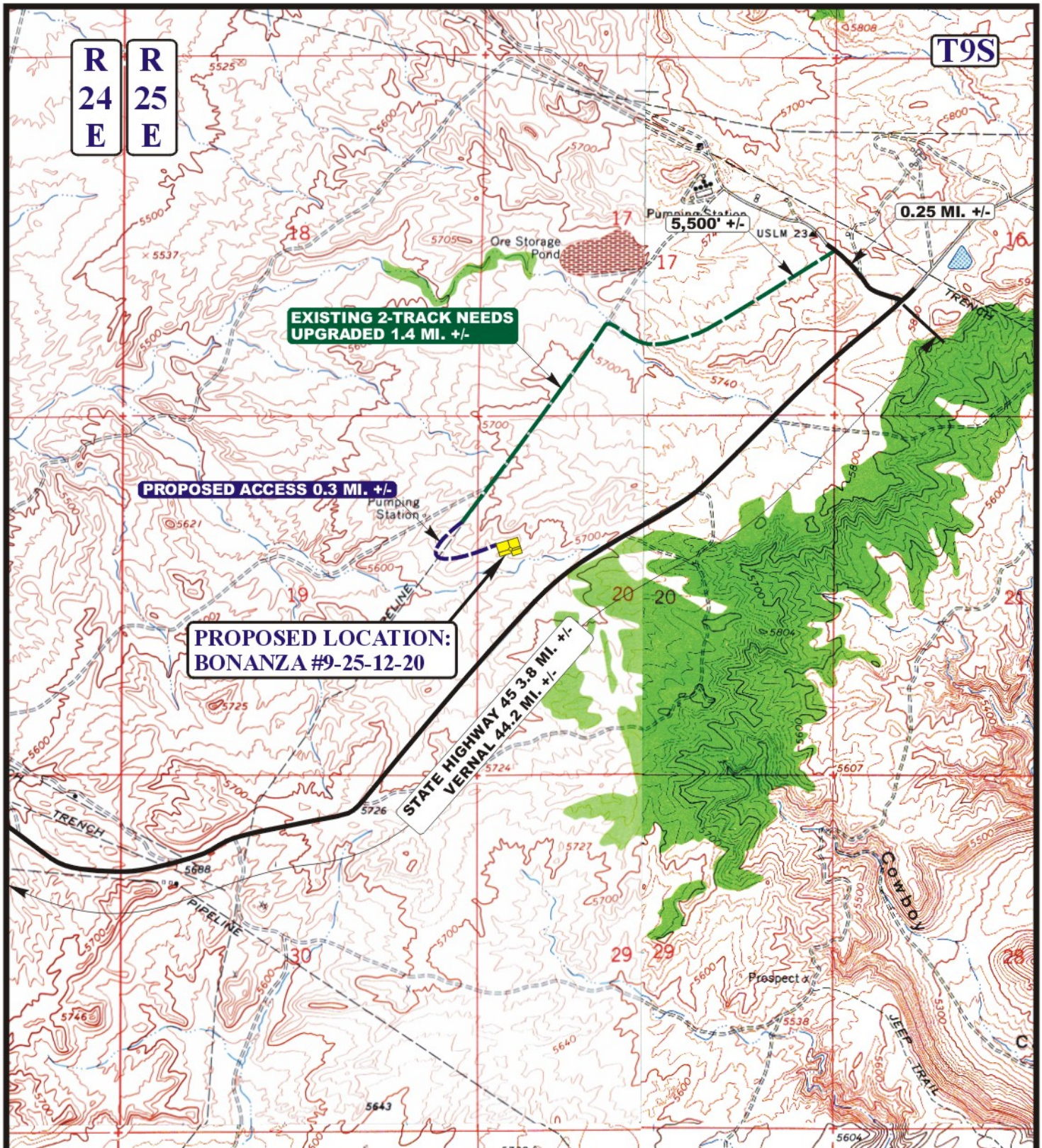
ENDURING RESOURCES, LLC

BONANZA #9-25-12-20
SECTION 20, T9S, R25E, S.L.B.&M.
1952' FNL 472' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	09 MONTH	13 DAY	05 YEAR	A TOPO
SCALE: 1:100,000	DRAWN BY: C.P.	REV: J.H. 01-08-09		

’APIWellNo:43047502590000’



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

EXISTING 2-TRACK NEEDS UPGRADED

N

ENDURING RESOURCES, LLC

BONANZA #9-25-12-20
SECTION 20, T9S, R25E, S.L.B.&M.
1952' FNL 472' FWL

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TOPOGRAPHIC MAP	09 MONTH	13 DAY	05 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REV: J.H. 01-08-09		

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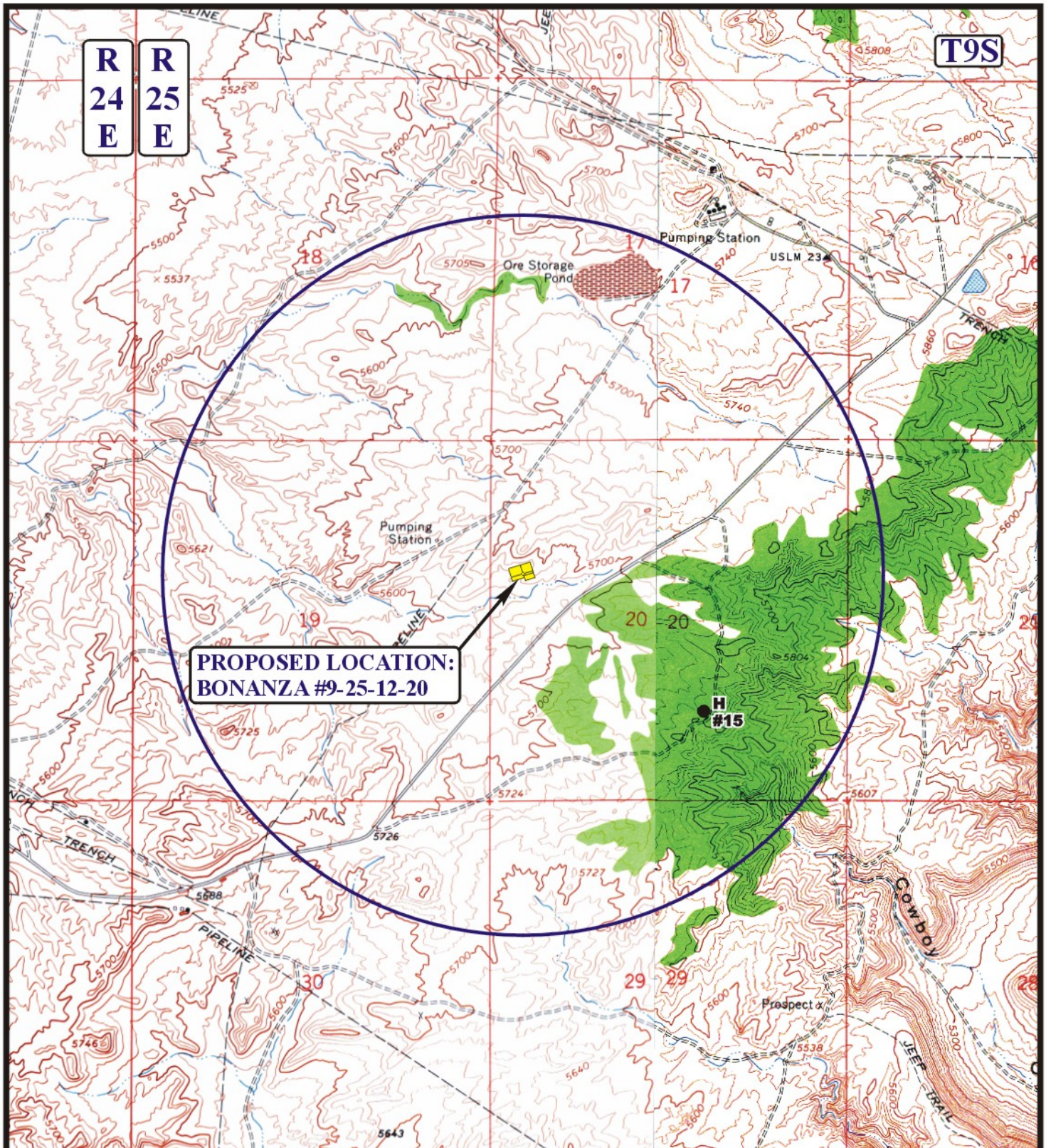


LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

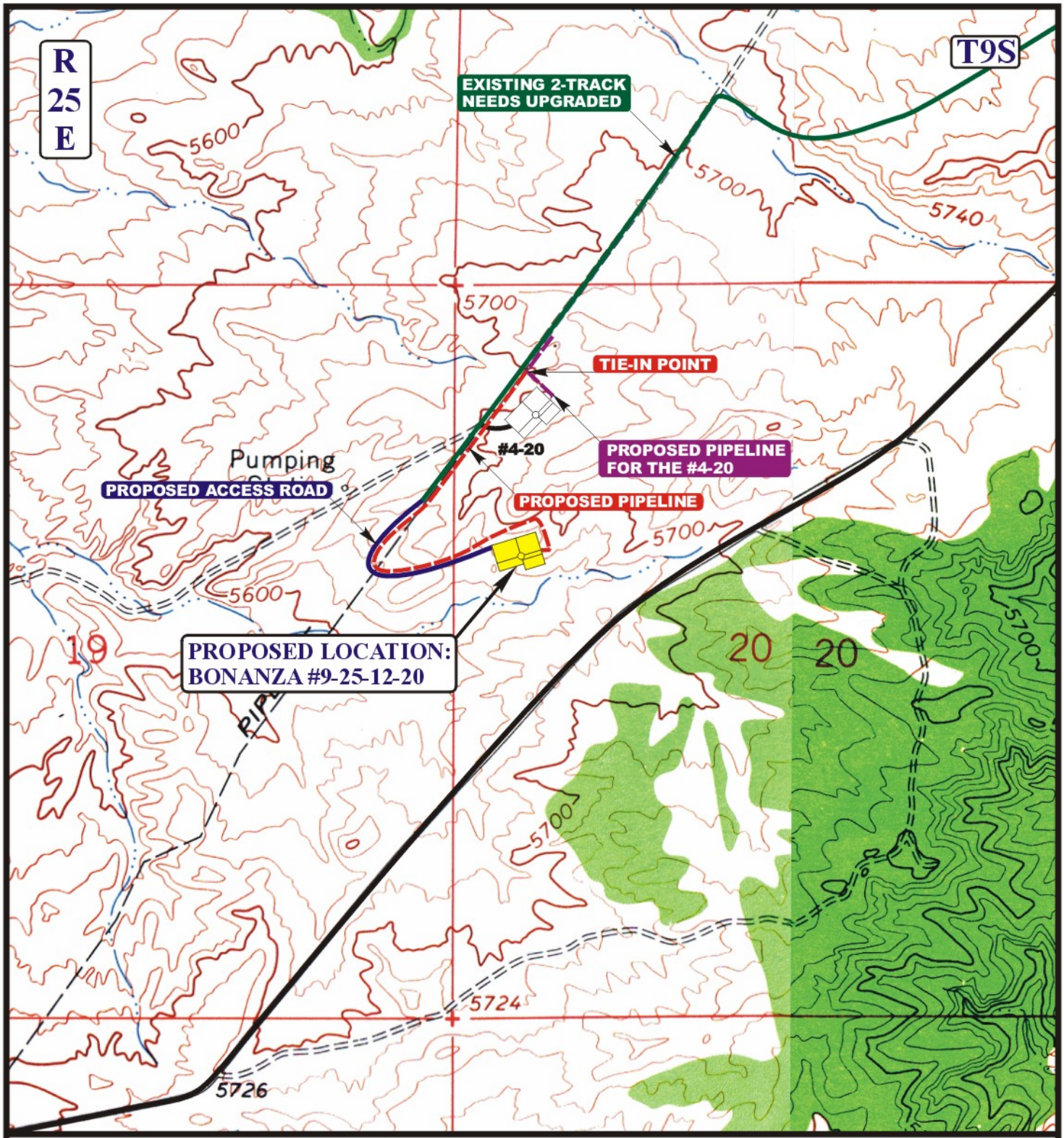
ENDURING RESOURCES, LLC

BONANZA #9-25-12-20
SECTION 20, T9S, R25E, S.L.B.&M.
1952' FNL 472' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	09 MONTH	13 DAY	05 YEAR
SCALE: 1" = 2000'	DRAWN BY: C.P.	REV: J.H. 01-08-09	C TOPO

’APIWellNo:43047502590000’



APPROXIMATE TOTAL PIPELINE DISTANCE = 3,403' +/-

LEGEND:

PROPOSED ACCESS ROAD

PROPOSED PIPELINE

PROPOSED PIPELINE (SERVICING OTHER WELLS)

N

ENDURING RESOURCES, LLC

BONANZA #9-25-12-20
SECTION 20, T9S, R25E, S.L.B.&M.
1952' FNL 472' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	09 MONTH	13 DAY	05 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: C.P.	REV: J.H. 01-08-09		

'APIWellNo:43047502590000'

CHECK REQUEST

ENDURING RESOURCES LLC

[ ] Computer Check
[X] Manual Check
[ ] Wire Transfer

VENDOR/OWNER #: _____ DATE REQUESTED: 1/14/2008

CHECK PAYABLE TO: **Bureau of Land Management** DATE NEEDED BY: As soon as possible

MAILING ADDRESS: **170 South 500 East** INVOICE DATE BY: _____

Vernal, Utah 84078 INVOICE #: _____

AMOUNT: ***$379.00***

TAXPAYER ID OR SS : _____

CHECK/COMMENTS: **Bonanza 9-25-12-20 Well**

Road r-o-w application UTU-82742

DESCRIPTION TO BE TYPED ON CHECK STUB: _____

CODING (All Applicable Data Must Be Filled In)

Property Name: **UTU-70875** Property Number: _____

GL Account #: _____ AFE#: _____ Lease Number _____

Prospect Name & Code: _____

ROUTING INSTRUCTIONS

[ ] WIRE TRANSFER

[X] **Return Check To: Al Arlian (must be mailed with Application.)**

CHECK REQUESTED BY: Al Arlian

APPROVED BY: _____ DATE: 1/14/2008

INSTRUCTIONS:

Use this form for paying 1) items not handled by Accounts Payable in the normal course of business, i.e. no supporting detail, or 2) for items of an urgent nature. Computer checks are run every Monday (Holidays and special circumstances excluded); therefore requests should be received by **Friday 12:00 Noon**. Manual checks are for urgent business only. Requests for manual checks should be delivered to Accounting at least 24 hours in advance.

1. Please complete as much information as possible. Insufficient information may delay the processing of your check. Please make sure to include the individual's or company's tax I.D. number if known.

3. Please route all check request forms to accounting.

'APIWellNo:43047502590000'

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Vernal Field Office
170 South 500 East
Vernal, UT 84078
(435) 781-4400 Fax: (435) 781-4410

TAKE PRIDE® IN AMERICA

IN REPLY REFER TO:
2800
UTU-82742
UT-083

Certified Mail
Return Receipt Requested
7005 1820 0002 6515 9878

DEC 0 9 2008

DECISION

Enduring Resources LLC.	:	
Attn: Al Arlian	:	Right-of-Way Application
475 17th Street, Suite 1500	:	UTU-82742
Denver, Colorado 80202	:	

Application Received
Processing Category Determined

On November 10, 2005, your agent, Don Hamilton, of Buys and Associates, filed a right-of-way (R/W) grant application for an access road to State wells Bonanza 5-20-9-25 and 13-20-9-25, ML-45560. Your application has been assigned serial number UTU-82742. In future correspondence with this office, we ask that you refer to this serial number. The proposed access road to Bonanza 13-20-9-25 will not require a right-of-way from the Bureau of Land Management (BLM) as this access is located entirely on lands that are not under the jurisdiction of the BLM. Enduring will need to obtain the necessary authorization from the State of Utah and/or private landowner located in Sections 19 SE¼, 20, and 30. However, the proposed access road for the Bonanza 5-20-9-25, will need a right-of-way for the portion of the road within the following legal description: (9-25-12-20)

T. 9 S., R. 25 E., SLM, Utah
Sec. 19, SE¼NE¼.

In accordance with 43 CFR 2804.14, a R/W applicant is required to reimburse the United States in advance for the administrative costs incurred in processing a right-of-way application. It has been determined that your application falls under Category 2. Under this category, you are required to pay a non-refundable processing fee in the amount of $379.00 before we can take any further action on your application. If we do not receive this amount within 30 days, we may reject your application.

We will begin processing your right-of-way application once we have received your processing fee.

This decision may be appealed to the Interior Board of Land Appeals, Office of the Secretary, in accordance with the regulations contained in 43 CFR, Part 4 and the enclosed Form 1842-1. If an appeal is taken, your notice of appeal must be filed in this office (at the above address) within 30 days from receipt of this decision. The appellant has the burden of showing that the decision appealed from is in error.

If you wish to file a petition (request) pursuant to regulation 43 CFR 2801.10 or 43 CFR 2881.10 for a stay (suspension) of the effectiveness of this decision during the time that your appeal is being reviewed by the Board, the petition for a stay must accompany your notice of appeal. A petition for a stay is required to show sufficient justification based on the standards listed below. Copies of the notice of appeal and petition for a stay must also be submitted to each party named in this decision and to the Interior Board of Land Appeals and to the appropriate Office of the Solicitor (see 43 CFR 4.413) at the same time the original documents are filed with this office. If you request a stay, you have the burden of proof to demonstrate that a stay should be granted.

Standards for Obtaining a Stay

Except as otherwise provided by law or other pertinent regulation, a petition for a stay of a decision pending appeal shall show sufficient justification based on the following standards:

(1) The relative harm to the parties if the stay is granted or denied,

(2) The likelihood of the appellant's success on the merits,

(3) The likelihood of immediate and irreparable harm if the stay is not granted, and

(4) Whether the public interest favors granting the stay.

If you have any questions regarding your right-of-way application or the fees connected with it, please contact Cindy McKee at (435) 781-4434.

Jerry Kenczka
AFM, Lands & Minerals

Enclosures
Form 1842-1 Information on Taking Appeals to the Board of Land Appeals
Processing Category Determination

'APIWellNo:43047502590000'

ROW Processing Fee Category Determination Decision For FLPMA and MLA Rights-of-Way

Application Serial Number: __UTU-82742_____
Applicant: ____Enduring Resources LLC_____
Agent: _____Al Arlian _____
Application For: Access road to state well Bonanza 5-20-9-25, ML-45560

Land Use Plan Conformance? ____No _X___Yes

Estimated Processing Requirements:

Type of ROW: __X____ FLPMA _____ MLA

NEPA Action Required: _____ EIS __X___ EA _____DNA _____CE/CX

Personnel Needed for Processing	**Estimated Processing Hours**
Realty Specialist/Land Law Examiner	10
Cultural/Paleontological Resources	1
T&E Species	1
Wildlife/Fisheries	1
Air/Water/Soils	1
Recreation/Visual	1
Range	
Fluids/Minerals	
Administration/Contracting	1
Manager	1
Nepa Cooridinator	1
Legal Instruments Examiner	
Administration	
TOTAL HOURS	18

The appropriate Processing Category for this application is Category_2_____. The Processing fee for this Category is $379.00. Processing fees for Categories 1-4 are non-refundable. See enclosed table for Category definitions and fee schedule.

Prepared By: ____Cindy McKee_____ ___1-8-2008_____
Realty Specialist Date

Approved By:_____ _____1-9-2008_____
Authorized Officer Date

2008 Processing Fee Schedule for FLPMA and MLA Rights-of-Way

Processing Category	Federal Work Hours Involved	Processing fee per application as of January 1, 2008. To be adjusted annually for changes in the IPD-GDP.
1. Applications for new grants, assignments, renewals, and amendments to existing grants.	Estimated Federal work hours are >1 ≤ 8.	$107
2. Applications for new grants, assignments, renewals, and amendments to existing grants.	Estimated Federal work hours are > 8 ≤ 24.	$379
3. Applications for new grants, assignments, renewals, and amendments to existing grants.	Estimated Federal work hours are > 24 ≤ 36.	$712
4. Applications for new grants, assignments, renewals, and amendments to existing grants.	Estimated Federal work hours are > 36 ≤ 50.	$1,021
5. Master agreements.	Varies.	As specified in the agreement.
6. Applications for new grants, assignments, renewals, and amendments to existing grants.	Estimated Federal work hours are > 50.	Full reasonable costs (FLPMA) Full actual costs (MLA)

Appeal Information

This decision may be appealed to the Interior Board of Land Appeals, Office of the Secretary, in accordance with the regulations contained in 43 CFR, Part 4 and the enclosed Form 1842-1. If an appeal is taken, your notice of appeal must be filed in this office (at the above address) within 30 days from receipt of this decision. The appellant has the burden of showing that the decision appealed from is in error.

If you wish to file a petition (request) pursuant to regulation 43 CFR 2801.10 or 43 CFR 2881.10 for a stay (suspension) of the effectiveness of this decision during the time that your appeal is being reviewed by the Board, the petition for a stay must accompany your notice of appeal. A petition for a stay is required to show sufficient justification based on the standards listed below. Copies of the notice of appeal and petition for a stay must also be submitted to each party named in this decision and to the Interior Board of Land Appeals and to the appropriate Office of the Solicitor (see 43 CFR 4.413) at the same time the original documents are filed with this office. If you request a stay, you have the burden of proof to demonstrate that a stay should be granted.

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Except as otherwise provided by law or other pertinent regulation, a petition for a stay of a decision pending appeal shall show sufficient justification based on the following standards:

(1) The relative harm to the parties if the stay is granted or denied,

(2) The likelihood of the appellant's success on the merits,

(3) The likelihood of immediate and irreparable harm if the stay is not granted, and

(4) Whether the public interest favors granting the stay.

Enclosure
BLM Form 1842-1

'APIWellNo:43047502590000'

Enduring Resources, LLC.
475 17TH STREET, SUITE 1500
DENVER, CO 80202
PH. 303-573-1222

VENDOR NAME	VENDOR NO.	CHECK DATE	CHECK NUMBER	CHECK AMOUNT
BUREAU OF LAND MANAGEMENT	**1238**	**Jan-15-2008**	**17341**	**$379.00**

VOUCHER	VENDOR INV #	INV DATE	TOTAL AMOUNT	PRIOR PMTS & DISCOUNTS	NET AMOUNT
01-AP-494	CKRQT011408	01/14/08	379.00	0.00	379.00
TOTAL INVOICES PAID					379.00

PAYEE: DETACH AND RETAIN FOR TAX PURPOSES

THIS CHECK HAS A COLORED FACE ON WHITE STOCK AND AN ARTIFICIAL WATERMARK ON THE BACK.

Enduring Resources, LLC.
475 17TH STREET, SUITE 1500
DENVER, CO 80202
PH. 303-573-1222

US BANK
23-2/1020

No. **17341**

CHECK NUMBER	DATE	PAY EXACTLY
17341	**Jan-15-2008**	**$379.00**

PAY EXACTLY $379dols00cts
THREE HUNDRED SEVENTY-NINE DOLLARS AND NO CENTS

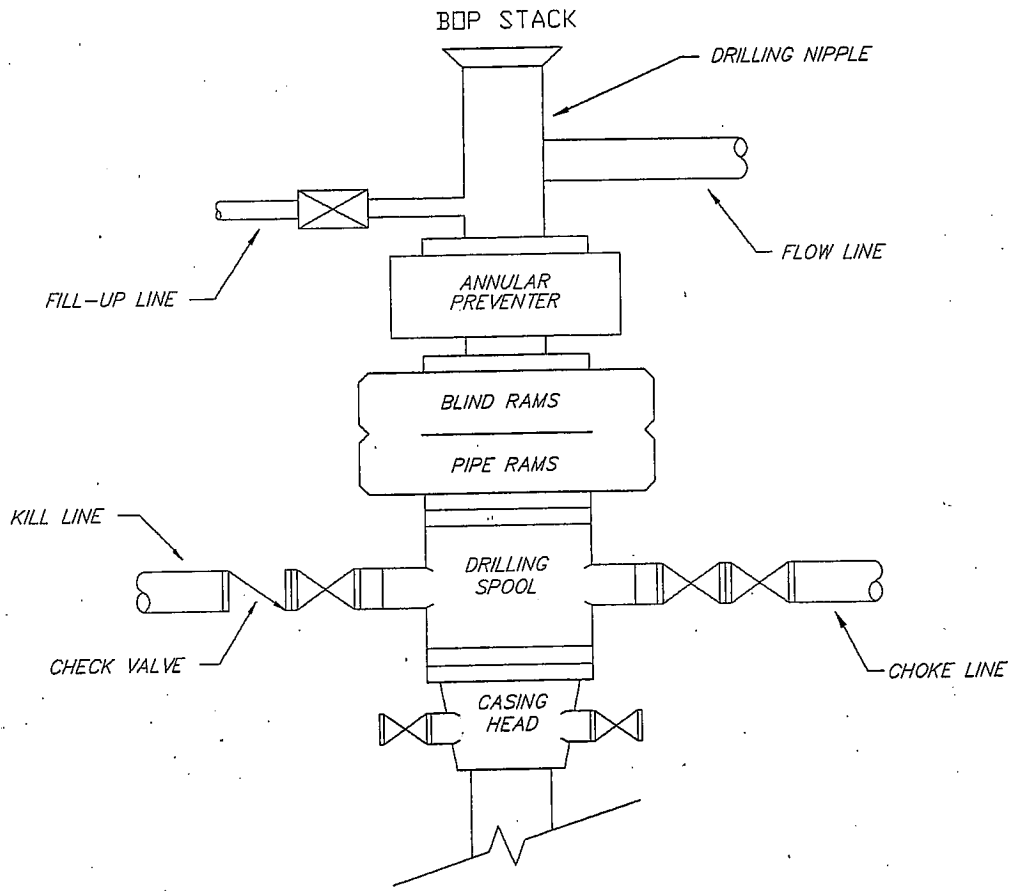
TO THE ORDER OF
BUREAU OF LAND MANAGEMENT
170 SOUTH 500 EAST
VERNAL, UT 84078

⑈00000173414⑈ ⑆102000021⑆ 1036900007775⑈

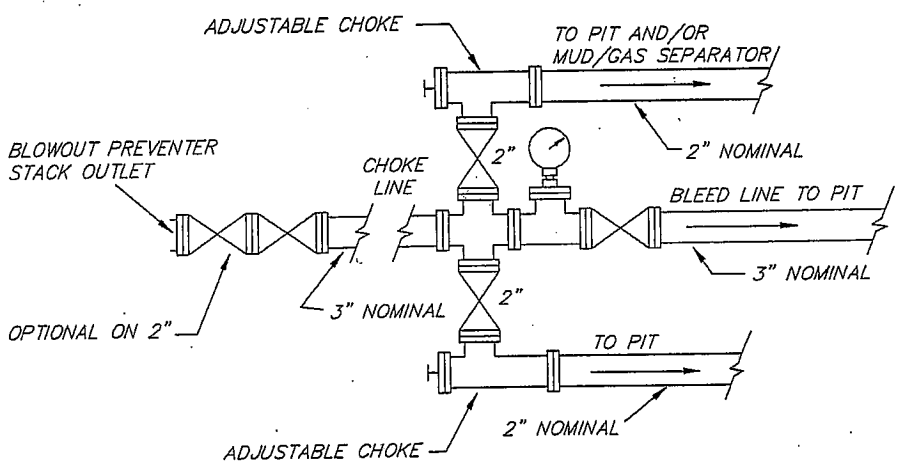
'APIWellNo:43047502590000'

ENDURING RESOURCES, LLC

TYPICAL 3,000 p.s.i. BLOWOUT PREVENTER SCHEMATIC



TYPICAL 3,000 p.s.i. CHOKE MANIFOLD SCHEMATIC



CULTURAL RESOURCE INVENTORY OF ENDURING RESOURCES' PROPOSED BONANZA WELLS 5-20-9-25, 13-20-9-25, 5-30-9-25, 6-30-9-25, 11-30-9-25, & 12-30-9-25) UINTAH COUNTY, UTAH

By:

Kylie Lower-Eskelson

Prepared For:

Bureau of Land Management
Vernal Field Office
&
State of Utah
School and Trust Lands Administration

Prepared Under Contract With:

Enduring Resources LLC
Denver, Colorado

Prepared By:

Montgomery Archaeological Consultants, Inc.
P.O. Box 147
Moab, Utah 84532

31 October, 2005

MOAC Report No. 05-463

United States Department of Interior (FLPMA)
Permit No. 05-UT-60122

State of Utah Antiquities Project (Survey)
Permit No. U-05-MQ-1241b,p,s

INTRODUCTION

In October of 2005, a cultural resource inventory was conducted by Montgomery Archaeological Consultants, Inc. (MOAC) of Enduring Resources' six proposed Bonanza well locations (5-20-9-25, 13-20-9-25, 5-30-9-25, 6-30-9-25, 11-30-9-25 and 12-30-9-25) with associated access/pipeline corridors. The project area is located about a mile west of Bonanza in Uintah County, Utah. The survey was implemented at the request of Mr. Al Arlian, Enduring Resources, LLC, Denver, Colorado. A total of 134 acres was inventoried of which 113 acres occur on State of Utah School and Trust Lands Administration Lands (SITLA), 7 acres on lands administered by the Bureau of Land Management (BLM), Vernal Field Office and 14 acres on private land.

The objectives of the inventory were to locate, document, and evaluate any cultural resources within the project area in order to comply with Section 106 of 36 CFR 800, the National Historic Preservation Act of 1966 (as amended). Also, the inventories were implemented to attain compliance with a number of federal and state mandates, including the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979, the American Indian Religious Freedom Act of 1978 (AIRFA), and Utah State Antiquities Act of 1973 (amended 1990).

The fieldwork was performed on October 18 and 19, 2005, by Keith Montgomery and Mark Beeson under the auspices of U.S.D.I. (FLPMA) Permit No. 05-UT-60122 and State of Utah Antiquities Permit (Survey) No. U-05-MQ-1241b,p,s issued to MOAC of Moab, Utah.

Prior to the fieldwork, a file search for previous cultural resource inventories and archaeological sites was conducted by Keith Montgomery at the BLM Vernal Field Office (October 17, 2005). This consultation indicated that a several inventories have been undertaken near the current project area.

Woodward-Clyde Consultants conducted a survey in 1980 for MAPCO's proposed pipeline. The inventory resulted in locating 119 isolated finds, 13 prehistoric sites, and one previously recorded site, however, none of the sites occur in the present project area (Woodward-Clyde, 1980).

In 1981, Nickens and Associates completed the Seep Ridge Sample Survey in which numerous sites where found throughout the area, although none of these are situated in the current project area (Larralde and Chandler 1981).

In 1992, Metcalf Archaeological Consultants, Inc. conducted a survey for a Questar Gas Mangament's pipeline (Pennefather-O'Brien, Lubinski, and Metcalf, 1992). A total of 149 sites were located on this project, all outside of the present inventory area.

Questar proposed a new pipeline running 25 ft from the existing Questar pipeline in 1997, which was inventoried by JBR Environmental Consultants Inc. (Mahoney and Billat 1997). The two pipelines are located north of proposed wells Red Wash 9-24-23-30 and 9-24-24-30. Two sites and three isolated finds were located and are not situated in the current project area.

In 2002 TRC Mariah Associates Inc. completed a seismic project through T9S R24E, Section 30, resulting in no cultural resources (Craven and Highland, 2002).

In 2004, Sagebrush Consultants (Sage) inspected Southman Canyon wells #4-30 and 14-30 which resulted in the documentation of 42Un4500 located outside of the current inventory area (Polk, 2004). Again in 2004, Sage surveyed the Southman Canyon natural gas trunkline for Rocky Mountain Consulting Inc. (Polk and Garrison, 2004). The Little Emma Mine was documented (42Un4371-eligible) and occurs near proposed Red Wash 9-24-34-30. In August 2004, Sage surveyed well pads #4-20, #4-36, and #6-36 and found no cultural resources (Polk 2004). During the same year Sage inventoried several wells in T9S R24E, Sec. 30 and located site 42Un4526, which is not located within the current project area (Weymouth, 2004). Also in 2004 Montogmery Archaeological Consultants (MOAC) conducted a survey of various pipelines in the area for Enduring Resources resulting in the documentation of two sites (42Un4786 and 42Un4784) neither of which occur within the current project area (Seacat and Montgomery 2005).

In 2005 MOAC conducted a cultural resource inventory of seven proposed well locations for Enduring Resources. The inventory resulted in the documentation of two sites (42Un4830 and 42Un4831), a cache of tipi poles and a rock art panel respectively. Neither of these sites occur within the current project area (Freudenburg and Seacat 2005). In the same year Sagebrush Archaeological Consultants, L.L.C. conducted an inventory of 11 Bonanza wells for Houston Exploration which resulted in the documentation of a historic trash dump, site 42Un4888. This site occurs near but not within the current project area (Pagano 2005).

In summary although several inventories have been undertaken within the general area of this project, no sites have been documented within the current project area.

DESCRIPTION OF PROJECT AREA

The project area is located about a mile west of Bonanza, in Township 9 South, Range 25 East Sections 17, 19, 20 and 30 Uintah County, Utah.

Table 1: Enduring Resources Proposed Well Location with Cultural Resources.

Well Location Designation	Legal Location	Access/Pipeline	Cultural Resources
Bonanza #5-20-9-25 SITLA	SW/NW Sec. 20, T9S R25E	Access: 1548 ft. Road Upgrade: 7392 ft. Pipeline: 3403 ft.	None
Bonanza #13-20-9-25 SITLA	SW/SW Sec. 20, T9S R25E	Access: 528 ft. Road Upgrade: 2376 ft. Pipeline: 1412 ft.	IF-A
Bonanza #5-30-9-25 SITLA	SW/NW Sec. 30, T9S R25E	Access: 528 ft. Pipeline: 700 ft.	None
Bonanza #6-30-9-25 SITLA	SE/NW Sec. 30, T9S R25E	Access: 1848 ft. Pipeline: 1981 ft.	None
Bonanza #11-30-9-25 SITLA	NE/SW Sec. 30, T9S R25E	Access: 80 ft. Road Reroute: 150 ft. Pipeline: 1150 ft.	None
Bonanza #12-30-9-25 SITLA	NW/SW Sec. 30, T9S R25E	Access: 1320 ft. Pipeline: 1758 ft.	None

Environment

The study area lies within the Uinta Basin physiographic unit, a distinctly bowl-shaped geologic structure (Stokes 1986:231). The Uinta Basin ecosystem is within the Green River drainage, considered to be the northernmost extension of the Colorado Plateau. The geology is comprised of Tertiary age deposits which include Paleocene age deposits, and Eocene age fluvial and lacustrine sedimentary rocks. The Uinta Formation, which is predominate in the project area, occurs as eroded outcrops formed by fluvial deposited, stream laid interbedded sandstone and mudstone, and is known for its prolific paleontological localities.

Specifically, the project area occurs west of Bonanza the valley floors which are interspersed by flat topped buttes and narrow steep-sided ridges. The area is heavily dissected and carved by ephemeral drainages. Surface geology consists of hard pan residual soil armored with shale and sandstone pebbles. The elevation ranges between 5600 ft and 5720 ft a.s.l. The project occurs within the Upper Sonoran Desert Shrub Association which includes sagebrush, shadscale, greasewood, mat saltbush, snakeweed, rabbitbrush, prickly pear cactus, Indian ricegrass, and other grasses. Modern disturbances include roads and oil/gas development.

SURVEY METHODOLOGY

An intensive pedestrian survey was performed for this project which is considered 100% coverage. At the proposed well locations, a 10 acre square was defined, centered on the well pad center stake. The location was inspected by walking parallel transects spaced no more than ten meters (30 ft) apart. The access and pipeline corridors were surveyed to a width of 60 meters (200 ft) and examined by the archaeologist. A total of 134 acres was inventoried on public lands with 113 acres on State of Utah School and Trust Lands Administration Lands (SITLA) 7 acres on lands administered by the Bureau of Land Management (BLM), Vernal Field Office and 14 acres on private land.

ISOLATED FIND OF ARTIFACT

This inventory of Enduring Resources six proposed Bonanza wells resulted in the location of one isolated find of artifact.

IF-A consists of one soldered seam commodity can and one brown glass "Clorox" bottle (1929-1962) located in the SE/SW/SW of Sec. 20 T9S R25E at UTM 659537E/4430934N within the survey area of well location #13-20-9-25.

RESULTS AND RECOMMENDATIONS

The inventory of Enduring Resources' six proposed Bonanza wells (5-20-9-25, 13-20-9-25, 5-30-9-25, 6-30-9-25, 11-30-9-25 and 12-30-9-25) with associated access and pipeline corridors in Township 9 South, Range 25 East Sections 17, 19, 20 and 30 resulted in the location of one isolated find of artifact. Based on these findings, a determination of "no historic properties affected" pursuant to Section 106, CFR 800 is proposed for this project.

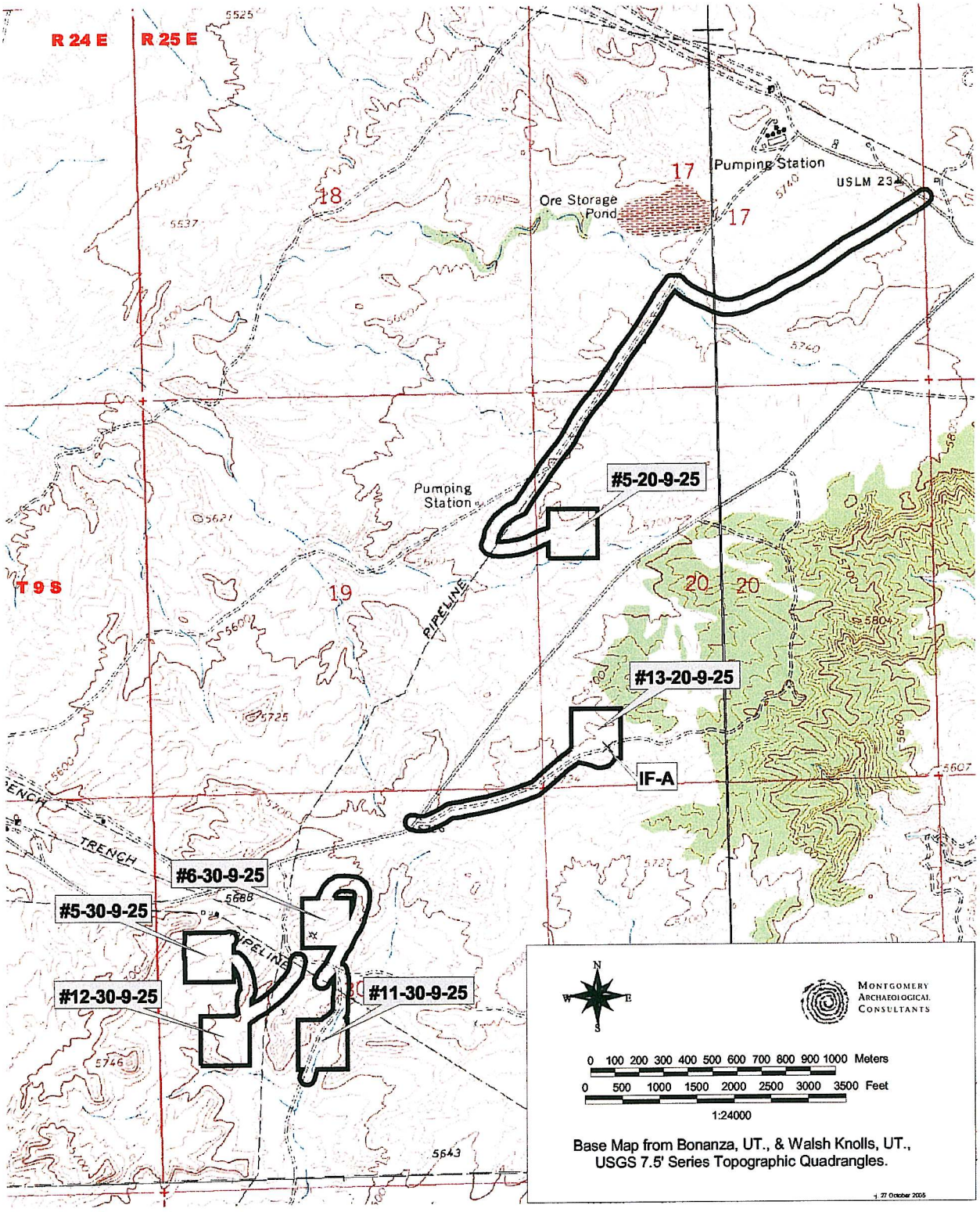


Figure 1. Map of Enduring Resources' Six Proposed Bonanza Well Locations Showing Cultural Resources.

REFERENCES CITED

Craven, C.D. and S.A. Highland
2002 A Class III Cultural Resource Inventory for the Uinta 2-D Seismic Project Lines 8,9, and 10, Uintah County, Utah. TRC Mariah Associates Inc. Salt Lake City, Utah. Report # U-02-ME-0207b,p,s.

Freudenburg, K. and T. Seacat
2005 Cultural Resource Inventory of Enduring Resources Seven Proposed Well Locations, Access and Pipelines in T9S R24E, Sections 22, 23, 27, 30, 34, 36 and T10S R25E, Section 6 in Uintah County, Utah. Report No. U-05-MQ-0615b,p,s.

Larralde, S.L. and S.M. Chandler
1981 Archaeological Inventory in the Seep Ridge Cultural Study Tract, Uintah County, Northeastern Utah. Nickens and Associates. Montrose, Colorado. Report No. U-81-NH-0590b.

Mahoney, J.P. and S.E. Billat
1997 Cultural Resource Inventory of 17 Miles of the Questar Main Line 43 Pipeline Replacement, Near Bonanza Uintah County, Utah. JBR Environmental Consultants Inc. Springville, Ut. Report # U-97-JB-0543 b,i,s.Pennefather-O'Brien, E., Patrick Lubinski, and Michael D. Metcalf

1992 Colorado Interstate Gas Company Uinta Basin Lateral 20" Pipeline: Class III Cultural Resource Final Report Utah, Colorado Wyoming. Metcalf Archaeological Consultants, Inc. Eagle, Colorado. Report # U-92-MM-154 b,i,p,s.

Pagano, S.C.
2005 A Cultural Resource Inventory of Houston Exploration Bonanza Wells #5-22, #6-22, #10-22, #11-22, #13-22, #14-22, #15-22, #16-22, #12-23, #14-23, and #5-24, Uintah County, Utah.

Polk, M.R.
2004a Cultural Resource Inventory for Proposed Southman Canyon Wells #4-30 and #14-30. Sagebrush Consultants, L.L.C. Ogden, Utah. Sagebrush Report No. 1360.

2004b A Cultural Resource Inventory of Houston Exploration Bonanza Wells #4-20, #4-36, and #6-36, Uintah County, Utah. Sagebrush Consultants, L.L.C. Ogden, Utah. Report # U-04-SJ-0720b,s.

Polk, M.R. and A.L. Garrison
2004 A Cultural Resource Inventory of the Southman Canyon Natural Gas Trunkline, Uintah County, Utah. Sagebrush Consultants, L.L.C. Ogden, Utah. Report # U-04-SJ00540 s,b,p.

Seacat, T. and K. Montgomery
2005 Archaeological Survey of Various Pipelines for Enduring Resources Proposed Well Locations. Addendum to: Cultural Resource Inventory of Enduring Resources' Eight Proposed Wells in T 9 S, R 24 E, Near Bonanza, Uintah County, Utah. Report No. U-05-MQ-0344b,p.

Stokes, W.L.
1986 *Geology of Utah*. Utah Museum of Natural History and Utah Geological and Mineral Survey, Salt Lake City.

Woodward-Clyde
1980 Cutlural Resource Inventory MAPCO's Rocky Mountain Liquid Hydrocarbons Pipeline, Utah. Woodward-Clyde Consultants. San Francisco, CA. Report # U-80-WG-299 b,f,n,p,s.

Weymouth, H.M.
2004 A Cultural Resource Inventory of Houston Exploration Southman Canyon Wells #6-6, #8-6, #8-30, #9-30, and #13-30, Uintah County, Utah. Sagebrush Consultants, L.L.C. Ogden, Utah. Report # U-04-SJ-830b

IPC #08-255

Paleontological Reconnaissance Survey Report

Survey of Enduring's Proposed Access Road Upgrade for "Bonanza #5-20-9-25" (Sec. 17 & 20, T 9 S, R 25 E)

Bonanza
Topographic Quadrangle
Uintah County, Utah

September 24, 2008

Prepared by Stephen D. Sandau
Paleontologist for
Intermountain Paleo-Consulting
P. O. Box 1125
Vernal, Utah 84078

INTRODUCTION

At the request of Al Arlian of Enduring Resources and authorized by James Kirkland of the Office of the State Paleontologist, a paleontological reconnaissance survey of Enduring's proposed access road upgrade for "Bonanza #5-20-9-25" (Sec. 17 & 20, T 9 S, R 25 E) was conducted by Stephen Sandau and Carisa Bomberger on September 24, 2008. The survey was conducted under Utah Paleontological Investigations Permit #07-356. This survey to collect any paleontological materials discovered during the construction processes in danger of damage or destruction was done to meet requirements of the National Environmental Policy Act of 1969, and other State and Federal laws and regulations that protect paleontological resources.

FEDERAL AND STATE REQUIREMENTS

As mandated by the State of Utah, paleontologically-sensitive geologic formations on State lands that may be impacted due to ground disturbance require paleontological evaluation. This requirement complies with:

1) The National Environmental Policy Act of 1969 (NEPA) (42 U.S.C. 4321.et. Seq., P.L. 91-190);
2) The Federal Land Policy and Management Act (FLPMA) of 1976 (90 Stat. 2743, 43 U.S.C. § 1701-1785, et. Seq., P.L. 94-579).
3) The National Historic Preservation Act.16 U.S.C. § 470-1, P.L. 102-575 in conjunction with 42 U.S.C. § 5320; and
4) The Utah Geological Survey. S. C. A.: 63-73-1. (1-21) and U.C.A.: 53B-17-603.

The new Potential Fossil Yield Classification (PFYC) System (October, 2007) replaces the Condition Classification System from Handbook H-8270-1. Geologic units are classified based on the relative abundance of vertebrate fossils or scientifically significant invertebrate or plant fossils and their sensitivity to adverse impacts, with a higher class number indicating a higher potential.

- ***Class 1* – Very Low**. Geologic units (igneous, metamorphic, or Precambrian) not likely to contain recognizable fossil remains.
- ***Class 2* – Low.** Sedimentary geologic units not likely to contain vertebrate fossils or scientifically significant non-vertebrate fossils. (Including modern eolian, fluvial, and colluvial deposits etc…)
- ***Class 3* – Moderate or Unknown.** Fossiliferous sedimentary geologic units where fossil content varies in significance, abundance, and predictable occurrence; or sedimentary units of unknown fossil potential.
    - ***Class 3a* – Moderate Potential.** The potential for a project to be sited on or impact a significant fossil locality is low, but is somewhat higher for common fossils.
    - ***Class 3b* – Unknown Potential.** Units exhibit geologic features and preservational conditions that suggest significant fossils could be present, but little information about the paleontological resources of the unit or the area is known.

- ***Class 4* – High.** Geologic units containing a high occurrence of vertebrate fossils or scientifically significant invertebrate or plant fossils, but may vary in abundance and predictability.
    - ***Class 4a* –** Outcrop areas with high potential are extensive (greater than two acres) and paleontological resources may be susceptible to adverse impacts from surface disturbing actions.
    - ***Class 4b* –** Areas underlain by geologic units with high potential but have lowered risks of disturbance due to moderating circumstances such as a protective layer of soil or alluvial material; or outcrop areas are smaller than two contiguous acres.
- ***Class 5* – Very High.** Highly fossiliferous geologic units that consistently and predictably produce vertebrate fossils or scientifically significant invertebrate or plant fossils.
    - ***Class 5a* -** Outcrop areas with very high potential are extensive (greater than two acres) and paleontological resources may be susceptible to adverse impacts from surface disturbing actions.
    - ***Class 5b*** - Areas underlain by geologic units with very high potential but have lowered risks of disturbance due to moderating circumstances such as a protective layer of soil or alluvial material; or outcrop areas are smaller than two contiguous acres.

It should be noted that many fossils, though common and unimpressive in and of themselves, can be important paleo-environmental, depositional, and chronostratigraphic indicators.

LOCATION

Enduring's proposed access road upgrade for "Bonanza #5-20-9-25" (Sec.17 & 20, T 9 S, R 25 E) is located on lands managed by the State of Utah Trust Lands Administration (SITLA) approximately 2.25 miles northeast of Bonanza, Utah. The project area can be found on the Bonanza 7.5 minute U. S. Geological Survey Quadrangle Map, Uintah County, Utah.

PREVIOUS WORK

The basins of western North America have long produced some of the richest fossil collections in the world. Early Cenozoic sediments are especially well represented throughout the western interior. Paleontologists started field work in Utah's Uinta Basin as early as 1870 (Betts, 1871; Marsh, 1871, 1875a, 1875b). The Uinta Basin is located in the northeastern corner of Utah and covers approximately 31,000 sq. km (12,000 sq. miles) ranging in elevation from 1,465 to 2,130 m (4,800 to 7,000 ft) (Marsell, 1964; Hamblin et al., 1987). Middle to late Eocene time marked a period of dramatic change in the climate, flora, (Stucky, 1992) and fauna (Black and Dawson, 1966) of North America.

GEOLOGICAL AND PALEONTOLOGICAL OVERVIEW

Early in the geologic history of Utah, some 1,000 to 600 Ma, an east-west trending basin developed creating accommodation for 25,000 feet of siliclastics. Uplift of that filled-basin during the early Cenozoic formed the Uinta Mountains (Rasmussen et al., 1999). With the rise of the Uinta Mountains the asymmetrical synclinal Uinta Basin is thought to have formed through the effects of down warping in connection with the uplift. Throughout the Paleozoic and Mesozoic deposition fluctuated between marine and non-marine environments laying down a thick succession of sediments in the area now occupied by the Uinta Basin. Portions of these beds crop out on the margins of the basin due to tectonic events during the late Mesozoic.

Early Tertiary Uinta Basin sediments were deposited in alternating lacustrine and fluvial environments. Large shallow lakes periodically covered most of the basin and surrounding areas during early to mid Eocene time (Abbott, 1957). These lacustrine sediments show up in the western part of the basin, dipping 2-3 degrees to the northeast and are lost in the subsurface on the east side. The increase of cross-bedded, coarse-grained sandstone and conglomerates preserved in paleo-channels indicates a transition to a fluvial environment toward the end of the epoch.

Four Eocene formations are recognized in the Uinta Basin: the Wasatch, Green River, Uinta and Duchesne River, respectively (Wood, 1941). The Uinta Formation is subdivided into two lithostratigraphic units namely: the Wagonhound Member (Wood, 1934), formerly known as Uinta A and B (Osborn, 1895, 1929) and the Myton Member previously regarded as the Uinta C.

Within the Uinta Basin in northeast Utah, the Uinta Formation in the western part of the basin is composed primarily of lacustrine sediments inter-fingering with over-bank deposits of silt and mudstone and westward flowing channel sands and fluvial clays, muds, and sands in the east (Bryant et al, 1990; Ryder et al, 1976). Stratigraphic work done by early geologists and paleontologists within the Uinta Formation focused on the definition of rock units and attempted to define a distinction between early and late Uintan faunas (Riggs, 1912; Peterson and Kay, 1931; Kay 1934). More recent work focused on magnetostratigraphy, radioscopic chronology, and continental biostratigraphy (Flynn, 1986; Prothero, 1996). Well-known for its fossiliferous nature and distinctive mammalian fauna of mid-Eocene Age, the Uinta Formation is the type formation for the Uintan Land Mammal Age (Wood et al, 1941).

The Duchesne River Formation of the Uinta Basin in northeastern Utah is composed of a succession of fluvial and flood plain deposits composed of mud, silt and sandstone. The source area for these late Eocene deposits is from the Uinta Mountains indicated by paleocurrent data (Anderson and Picard, 1972). In Peterson's (1931c) paper, the name "Duchesne Formation" was applied to the formation and it was later changed to the "Duchesne River Formation" by Kay (1934). The formation is divided up into four members: the Brennan Basin, Dry Gulch Creek, LaPoint, and Starr Flat (Anderson and Picard, 1972). Debates concerning the Duchesne River Formation, as to whether its age was late Eocene or early Oligocene, have surfaced throughout the literature of the last century (Wood et al., 1941; Scott 1945). Recent paleo-magnetostratigraphic work (Prothero, 1996) shows that the Duchesne River Formation is late Eocene in time.

FIELD METHODS

In order to determine if the proposed project area contained any paleontological resources, a reconnaissance survey was performed. An on-site observation of the proposed areas undergoing surficial disturbance is necessary because judgments made from topographic maps alone are often unreliable. Areas of low relief have potential to be erosional surfaces with the possibility of bearing fossil materials rather than surfaces covered by unconsolidated sediment or soils.

When found within the proposed construction areas, outcrops and erosional surfaces were checked to determine if fossils were present and to assess needs. Careful effort is made during surveys to identify and evaluate significant fossil materials or fossil horizons when they are found. Microvertebrates, although rare, are occasionally found in anthills or upon erosional surfaces and are of particular importance.

PROJECT AREA

The project area is situated in the Wagonhound Member (Uinta A & B) of the Uinta Formation. The proposed access road upgrade for "Bonanza #5-20-9-25" begins off an existing two-track road in the NE/SW quarter-quarter section of Sec. 17, T 9 S, R 25 E and travels approximately a half mile before tying in to the proposed access road in the NW/NW quarter-quarter section of Sec. 20 (Figure 1). The proposed access road upgrade begins at a large ditch perpendicular to the road surface and travels over an existing two-track road. The sediments are all previously disturbed. The area on either side of the road is rolling hills and drainages of soil covered in colluvium and alluvium supporting sage brush and grasses. No fossils were found.

SURVEY RESULTS

PROJECT	GEOLOGY	PALEONTOLOGY
Proposed Access Road Upgrade for "Bonanza #5-20-9-25" (Sec. 17 & 20, T 9 S, R 25 E)	The proposed access road upgrade begins at a large ditch perpendicular to the road surface and travels over an existing two-track road. The sediments are all previously disturbed. The area on either side of the road is rolling hills and drainages of soil covered in colluvium and alluvium supporting sage brush and grasses.	No fossils were found. **Class 3a**

RECOMMENDATIONS

A reconnaissance survey was conducted for Enduring’s proposed access road upgrade for “Bonanza #5-20-9-25” (Sec. 17 & 20, T 9 S, R 25 E). The access road upgrade covered in this report showed no signs of vertebrate fossils. Therefore, we recommend that no paleontological restrictions should be placed on the development of the projects included in this report.

Buried pipeline will encounter Uinta formational sediments along most of the staked pipeline corridors yet indications from surface fossils predict that little if any vertebrate fossils will be disturbed.

Nevertheless, if any vertebrate fossil(s) are found during construction within the project area, Operator (Lease Holder) will report all occurrences of paleontological resources discovered to a geologist with the Office of the State Paleontologist. The operator is responsible for informing all persons in the areas who are associated with this project of the requirements for protecting paleontological resources. Paleontological resources found on the public lands are recognized by the State as constituting a fragile and nonrenewable scientific record of the history of life on earth, and so represent an important and critical component of America's natural heritage.

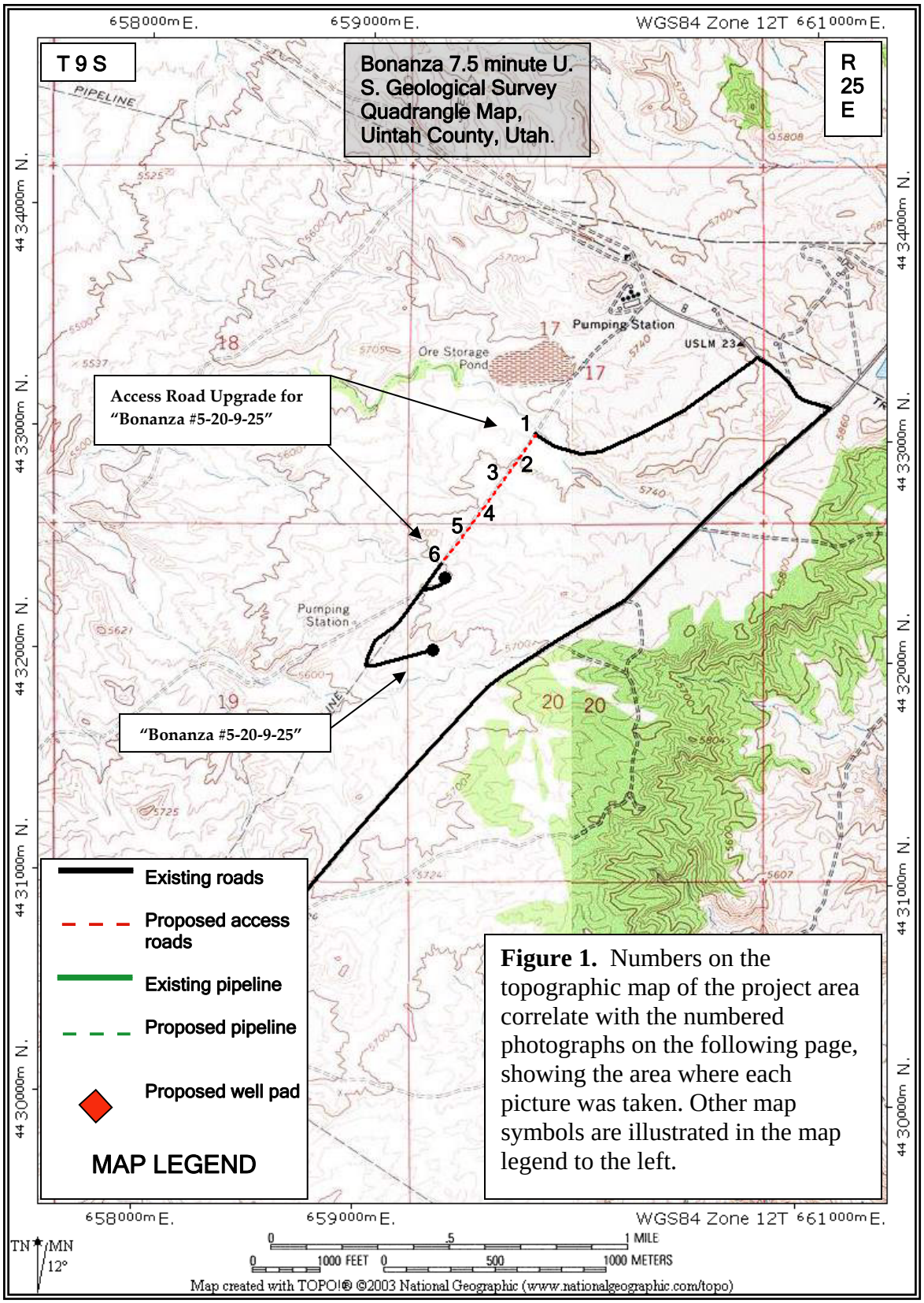
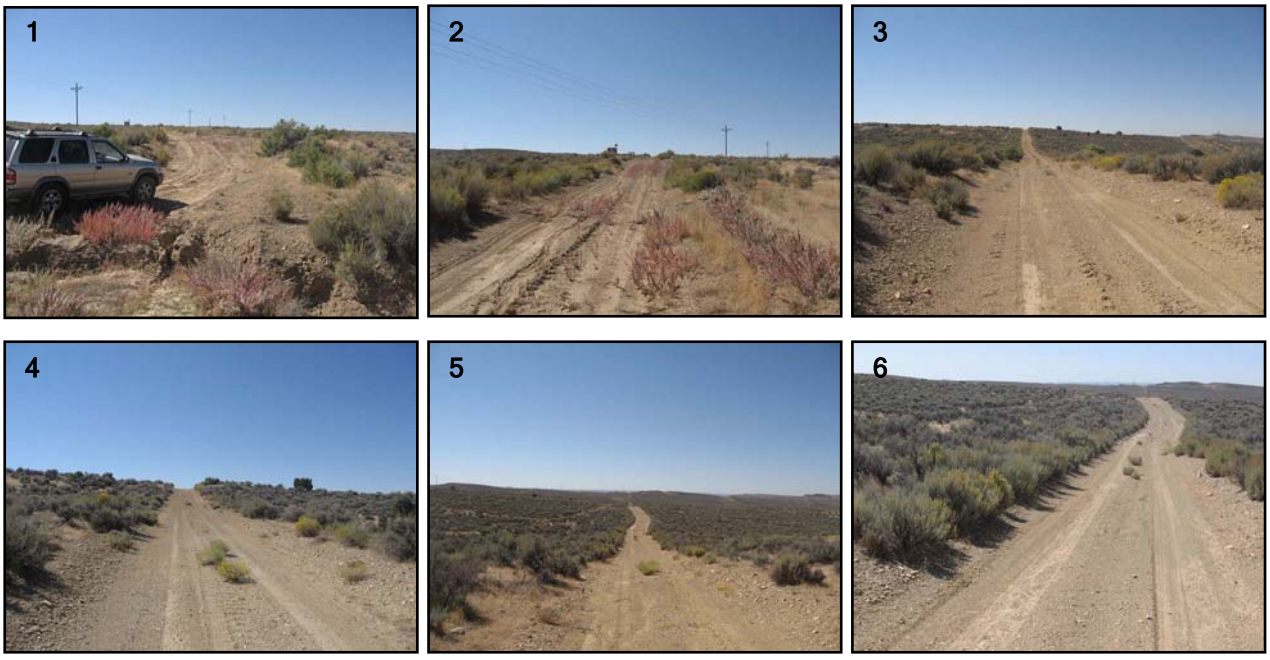


Figure 1. Numbers on the topographic map of the project area correlate with the numbered photographs on the following page, showing the area where each picture was taken. Other map symbols are illustrated in the map legend to the left.

Figure 1. *continued…*



REFERENCES CITED

Abbott, W., 1957, Tertiary of the Uinta Basin: Intermountain Assoc. Petroleum Geologists Guidebook, Eighth Ann. Field Conf., p. 102-109.

Anderson, D. W., and Picard, M. D., 1972, Stratigraphy of the Duchesne River Formation (Eocene-Oligocene?), northern Uinta Basin, northeastern Utah: Utah Geological and Mineralogical Survey Bulletin 97, p. 1-28.

Betts, C. W., 1871, The Yale College expedition of 1870: Harper's New Monthly Magazine, v. 43, p. 663-671.

Black, C. C. and Dawson, M. R., 1966, A Review of Late Eocene Mammalian Faunas from North America: American Journal of Science, v. 264, p. 321-349.

Bryant, B., Naeser C. W., Marvin R. F., Mahnert H. H., 1989, Cretaceous and Paleogene Sedimentary Rocks and Isotopic Ages of Paleogene Tuffs,Uinta basin, Utah. And Ages of Late Paleogene and Neogene Tuffs and the Beginning of Rapid Regional Extension, Eastern Boundary of the Basin and Range Province near Salt lake City, Utah: In: Evolution of Sedimentary basins-Uinta and Piceance Basins. U. S. Geological Survey Bulletin 1787-J, K.

Flynn, J. J., 1986, Correlation and geochronology of middle Eocene strata from the western United States: Palaeogeographic, Palaeoclimatology, Palaeoecology, v. 55, p. 335-406.

Hamblin, A. H. and Miller, W. E., 1987, Paleogeography and Paleoecology of the Myton Pocket, Uinta Basin, Utah (Uinta Formation-Upper Eocene): Brigham Young University Geology Studies, v. 34, p 33-60.

Kay, J. L., 1934, Tertiary formations of the Uinta Basin, Utah: Annals of Carnegie Museum, v. 23, p. 357-371.

Marsell, R. E., 1964, Geomorphology of the Uinta Basin-A Brief Sketch: Thirteenth annual Field Conference. Association of Petroleum Geologists, p. 34-46.

Marsh, O. C., 1871, on the geology of the Eastern Uintah Mountains: American Journal of Science and Arts, v. 1, p. 1-8.

_____ 1875a, Ancient lake basins of the Rocky Mountain region: American Journal of Science and Arts, v. 9, p. 49-52.

_____ 1875b, Notice of new Tertiary mammals, IV: American Journal of Science and Arts, Third Series, v. 9, p. 239-250.

Osborn, H. F., 1895, Fossil mammals of the Uinta beds, expedition of 1894: American Museum of Natural History Bulletin, v. 7, p. 71-106.

_____ 1929, The Titanotheres of Ancient Wyoming, Dakota and Nebraska: Monograph of the U. S. Geological Survey, v. 55, p. 1-953.

Peterson, O. A., 1931c, new species from the Oligocene of the Uinta: Annals of Carnegie Museum, v. 21, p. 61-78.

Peterson, O. A. and Kay, J. L., 1931, The Upper Uinta Formation of Northeastern Utah: Annals of the Carnegie Museum, v. 20, p. 293-306.

Prothero, D. R., 1996, Magnetic Stratigraphy and biostratigraphy of the middle Eocene Uinta Formation, Uinta Basin, Utah, *in* Prothero, D. R., and Emry, R. J. editors, The Terrestrial Eocene-Oligocene Transition in North America, p. 3-24.

Rasmussen, D. T., Conroy, G. C., Friscia, A. R., Townsend, K. E. and Kinkel, M. D., 1999, Mammals of the middle Eocene Uinta Formation: Vertebrate Paleontology of Utah, p. 401-420.

Riggs, E. S., 1912. New or Little Known Titanotheres from the Lower Uintah Formations: Field Museum of Natural History Geological Series, v. 159, p. 17-41.

Ryder, R. T., Fouch, T. D., Elison, J. H., 1976, Early Tertiary sedimentation in the western Uinta Basin, Utah: Geological Society of America Bulletin v. 87, p. 496-512.

Scott, W. B., 1945, The Mammalia of the Duchesne River Oligocene: Transactions of the American Philosophical Society, v. 34, p. 209-253.

Stucky, R. K., 1992, Mammalian faunas in North America of Bridgerian to early Arikareean "age" (Eocene and Oligocene), in Prothero, D. R., and Berggren, W. A., eds., Eocene-Oligocene climatic and biotic evolution: Princeton University Press, p. 464-493.

Wood, H. E., 1934, Revision of the Hyrachyidaes: American Museum of Natural History Bulletin, v. 67, p. 181-295.

_____ and others, 1941, Nomenclature and Correlation of the North America Continental Tertiary: Geol. Soc. Amer. Bull., v. 52, no. 1, Jan. 1, p. 1-48. 52, no. 1, Jan. 1, p. 1-48.

EASEMENT

Fund: School
Easement No. 1046

THE STATE OF UTAH, by and through the School and Institutional Trust Lands Administration, GRANTOR, in consideration of the payment of $6,868.54 plus a $600.00 application fee, receipt of which is acknowledged, and the promise of GRANTEE to pay an administrative fee as provided by Administration Rules R850-40-1800 and R850-4-200, as amended or replaced, to GRANTOR on or before January 1, 2009, and every third year thereafter, or within 10 days of notice from GRANTOR that payment is due, hereby grants to Enduring Resources, LLC, 475 – 17th Street, Suite 1500, Denver, Colorado, 80202, GRANTEE, the right to construct, operate, repair and maintain an access road and 4-inch diameter natural gas pipeline on state trust lands described as follows:

Township 9 South, Range 25 East SLB&M
Section 30: N½NE¼ (within)

Pipeline and Access Road Corridor A

A 40 foot wide easement, 20 feet on each side of the following described centerline.

Beginning at a point in the NW¼ NE¼ of Section 30, T9S, R25E, S.L.B.&M. which bears S66°18'06E 1014.38 feet from the north ¼ corner of said Section 30, thence N87°44'01"E 151.52 feet; thence N71°28'13"E 65.78 feet; thence N62°14'25"E 210.69 feet; thence N74°14'07"E 88.65 feet; thence N89°10'50"E 135.29 feet; thence N79°19'26"E 113.88 feet; thence N76°19'30"E 185.53 feet; thence N80°36'06"E 163.66 feet; thence N71°11'01"E 163.45 feet; thence N65°40'36"E 158.40 feet; thence N72°01'50"E 64.73 feet; thence N79°08'59"E 95.88 feet; thence N69°37'22"E 30.22 feet to a point in the NE¼ NE¼ of said Section 30, which bears S89°57'53"W 151.25 feet from the north ¼ corner of said Section 30. The side lines of said described easement being shortened or elongated to meet the Grantor's property lines. Basis of bearings is a G.P.S. observation. Contains 1.495 acres, more or less.

Pipeline and Access Road Corridor B

A 40 foot wide easement, 20 feet on each side of the following described centerline.

Beginning at a point in the NE¼ NE¼ of Section 30, T9S, R25E, S.L.B.&M. which bears S86°36'39"W 179.93 feet from the northeast corner of said Section 30, thence S61°12'54"E 205.01 feet to a point on the east line of the NE¼ NE¼ of said Section 30, which bears S00°01'43"E 109.35 feet from the northeast corner of said Section 30. The side lines of said described easement being shortened or

BONANZA 9-25-14-20
9-25-12-20

elongated to meet the Grantor's property lines. Basis of bearings is a G.P.S. observation. Contains 0.188 acres, more or less.

Township 9 South, Range 25 East SLB&M
Section 17: S½ (within)

Access Road

A 30 foot wide easement, 15 feet on each side of the following described centerline.

Beginning at a point in the NE¼ SE¼ of Section 17, T9S, R25E, S.L.B.&M. which bears S03°35'15"W 240.99 feet from the east ¼ corner of said Section 17, thence S57°54'15W 92.67 feet; thence S73°02'59"W 336.08 feet; thence S72°02'33"W 243.81 feet; thence S64°00'04"W 200.14 feet; thence S62°56'14"W 289.53 feet; thence S63°25'24"W 612.21 feet; thence S63°26'29"W 536.84 feet; thence S63°10'40"W 210.18 feet; thence S64°47'05"W 272.28 feet; thence N85°18'56"W 315.40 feet; thence N80°45'27"W 161.24 feet; thence N60°35'26"W 181.46 feet; thence N60°17'00"W 66.65 feet; thence N76°19'15"W 36.12 feet; thence S64°21'36"W 66.94 feet; thence S39°42'07"W 72.64 feet; thence S43°37'49"W 105.43 feet; thence S33°27'13"W 380.01 feet; thence S33°40'48"W 153.75 feet; thence S35°11'04"W 336.82 feet; thence S36°34'30"W 453.00 feet; thence S36°15'51"W 232.97 feet to a point on the south line of the SW¼ SW¼ of said Section 17, which bears S89°58'41"E 917.32 feet from the southwest corner of said Section 17. The side lines of said described easement being shortened or elongated to meet the Grantor's property lines. Basis of bearings is a G.P.S. observation. Contains 3.689 acres, more or less.

TO HAVE AND TO HOLD for a term of 20 years commencing June 1, 2006 and expiring May 31, 2026, unless earlier terminated, subject to the following terms and conditions and any valid and existing rights or until GRANTEE, its successors and assigns shall fail to make any payment in accordance with its promise above set forth. This Easement is granted only for the purpose described above as far as it is consistent with the principles and obligations in the Enabling Act of Utah (Act of July 16, 1894, Ch. 138, 28 Stat. 107) and the Constitution of the State of Utah.

1. GRANTEE shall pay for all cost and expense in connection with the construction, operation, repair, replacement, and maintenance of said access road and pipeline across trust lands, and hold GRANTOR harmless from any and all liability (including expenses for attorney's fees) which may arise from the construction, operation, and maintenance of said access road and pipeline, so long as the Easement shall remain in force and effect.

2. GRANTOR reserves the right to relocate or modify the Easement, in whole or in part, as may be necessary to satisfy the interests of GRANTOR for the use of the dominant estate or

the adjoining lands. The cost of such relocation shall be at GRANTEE's sole expense. The relocated or modified Easement shall provide GRANTEE with access such as is necessary to fulfill the purposes of the grant.

3. GRANTEE shall have sixty (60) days after the expiration of the terms of this Easement to remove said access road and pipeline if GRANTOR determines it is in GRANTOR's best interest, and upon written notification from GRANTOR. In the event the same is not removed within sixty (60) days, it is mutually agreed by and between GRANTOR and GRANTEE that GRANTOR shall have the right to remove, or cause the same to be removed, all at the cost and expense of GRANTEE.

4. GRANTEE represents that it has notified holders of state issued interests in the area surrounding the Easement, as set forth in Exhibit "A" attached hereto, of GRANTEE's rights and plans hereunder. GRANTEE represents that the location and construction of this Easement will not unreasonably interfere with or cause damage to such other existing users.

5. GRANTEE agrees that, for good cause shown, at any time during the term of this Easement, GRANTOR may require that the amount of an existing bond be increased or if a bond has not been previously required, GRANTOR may require GRANTEE to post with GRANTOR a bond with an approved corporate surety company authorized to transact business in the State of Utah, or such other surety as may be acceptable to GRANTOR, in a sum to be determined by GRANTOR, said bond to be conditioned upon full compliance with all terms and conditions of this Easement and the rules relating hereto. The amount of this bond shall not be deemed to limit any liability of GRANTEE.

6. GRANTEE assumes liability for and agrees to indemnify GRANTOR for and against any and all liability, including attorney's fees, of any nature imposed upon, incurred by, or asserted against GRANTOR which in any way relates to or arises out of the activity or presence upon the Easement of GRANTEE, its servants, employees, agents, sublessees, assignees, or invitees, unless such liability is caused by GRANTOR's sole negligence.

7. This Easement may be terminated by GRANTOR upon breach of any conditions hereof. If GRANTOR determines that GRANTEE, its assigns or successors in interest have breached any conditions of this Easement, GRANTOR shall notify the breaching party (parties) in writing by certified mail, return receipt requested, specifying the particular breach. The breaching party (parties) shall have thirty (30) days from the date of such notice, or such longer period as may be required under the circumstances as approved by GRANTOR to correct such breach. If breaching party (parties) fails (fail) to correct such breach within such period, GRANTOR may terminate this Easement without further notice; provided, however, such termination shall not release breaching party (parties) from liability for damage prior to such termination.

8. GRANTEE consents to suit in the courts of the State of Utah in any dispute arising under the terms of this Easement or as a result of operations carried on under this Easement.

Service of process in any such action is hereby agreed to be sufficient if sent by registered mail to GRANTEE at the last known address of GRANTEE appearing in the records of GRANTOR.

9. GRANTEE agrees for itself, successors and assigns that any suit brought by GRANTEE, its successors or assigns concerning this Easement may be maintained only in the Utah State District Court of Salt Lake County.

10. The acquisition or assumption by another party under an agreement with GRANTEE of any right or obligation of GRANTEE under this Easement shall be ineffective as to GRANTOR unless and until GRANTOR shall have been notified of such agreement and shall have recognized and approved the same in writing, and in no case shall such recognition or approval: (i) operate to relieve GRANTEE of the responsibilities or liabilities assumed by GRANTEE hereunder; or (ii) be given unless such other party is acceptable to GRANTOR as a grantee, and assumes in writing all of the obligations of GRANTEE under the terms of this Easement as to the balance of the term thereof, or acquires the rights in trust as security and subject to such conditions as GRANTOR deems necessary.

11. GRANTEE shall at all times observe reasonable precautions to prevent fire on said Easement and shall comply with all applicable laws and regulations of any governmental agency having jurisdiction. In the event of a fire on said Easement proximately caused by GRANTEE, its servants, employees, agents, sublessees, assignees or licensees which necessitates suppression action by the State Forester or any other government entity incurring supplemental costs, GRANTEE agrees to reimburse GRANTOR for the cost of such fire suppression action.

12. GRANTEE shall surrender to GRANTOR said lands in the original land contour in order to allow the area to properly drain. Rehabilitation shall be done with the approval and to the specifications of GRANTOR.

13. GRANTEE, in exercising the privileges granted by this Easement, shall comply with the provisions of all valid Federal, State, County, and Municipal laws, ordinances, and regulations which are applicable to the subject tract and operations covered by this Easement. GRANTEE shall neither commit nor permit any waste on the Easement premises. GRANTEE shall take reasonable precautions to prevent pollution or deterioration of lands or waters which may result from the exercise of the privileges granted pursuant to this Easement.

14. GRANTOR herein reserves the right to utilize said Easement for access to and from the lands owned by GRANTOR on both sides of said Easement.

15. It is expressly understood and agreed that the right herein granted is non-exclusive and GRANTOR hereby reserves the right to issue other non-exclusive easements, leases, or permits on or across the subject property where such uses are appropriate and compatible or to dispose of the property by sale or exchange.

16. GRANTOR expressly reserves the right to lease said land for the exploration, development and production of oil, gas and all other minerals, together with the right of ingress and egress across said Easement.

17. GRANTEE agrees that the removal of ordinary sand and gravel or similar materials from the Easement is not permitted except when GRANTEE has applied for and received a materials permit from GRANTOR.

18. GRANTEE agrees that no trees may be cut or removed from the Easement except when GRANTEE has applied for and received a small forest products permit or timber contract from GRANTOR.

19. It is hereby understood and agreed that all treasure-trove, all articles of antiquity, and critical paleontological resources in or upon the subject lands are and shall remain the property of GRANTOR. GRANTEE agrees that all costs associated with archeological and paleontological investigations on the subject lands that may be required by GRANTOR will be borne by GRANTEE. GRANTEE further agrees to cease all activity on the subject lands and immediately notify GRANTOR if any discovery of human remains or a "site" or "specimen," as defined in Section 9-8-302 or 63-73-1 Utah Code Annotated (1953), as amended, is made on the subject lands, and continue to cease all construction or maintenance therein until such time as the human remains, "site" or "specimen" in question has been treated to the satisfaction of GRANTOR.

20. GRANTOR claims title in fee simple, but does not warrant to GRANTEE the validity of title to these premises. GRANTEE shall have no claim for damages or refund against GRANTOR for any claimed failure or deficiency of GRANTOR's title to said lands or for interference by any third party.

21. GRANTOR reserves the right to inspect the area subject to the Easement at any time and recall GRANTEE for correction of any violations of stipulations contained herein. If GRANTEE fails to correct such violations within a reasonable time GRANTOR may, after thirty (30) days written notice, re-enter and terminate this Easement.

22. This Easement is granted pursuant to the provisions of all applicable laws and subject to the rules of the departments and agencies of the State of Utah presently in effect and to such laws and rules as may be hereafter promulgated by the State.

23. Any notice contemplated herein to be served upon GRANTEE shall be in writing and shall be deemed sufficient if deposited in the United States mail, postage prepaid and certified or registered, and addressed as follows:

Enduring Resources, LLC
475 – 17th Street, Suite 1500
Denver, Colorado 80202

or at any such other address as GRANTEE may from time to time designate by written notice to GRANTOR.

24. This Easement shall be interpreted and governed by the laws of the State of Utah and the provisions hereof shall inure to and be binding upon the successors and assigns of GRANTEE.

25. No Waiver of Conditions by GRANTOR of any default of GRANTEE or failure of GRANTOR to timely enforce any provisions of this Easement shall constitute a waiver of or constitute a bar to subsequent enforcement of the same or other provisions of this Easement. No provision in this Easement shall be construed to prevent GRANTOR from exercising any legal or equitable remedy it may otherwise have.

'APIWellNo:43047502590000'

IN WITNESS WHEREOF, the State of Utah, by and through the School and Institutional Trust Lands Administration, has caused these presents to be executed this 12th day of July, 2006 by the Director.

GRANTOR: STATE OF UTAH
School and Institutional
Trust Lands Administration
675 East 500 South, Suite 500
Salt Lake City, Utah 84102-2818

By: _____
KEVIN S. CARTER, DIRECTOR

GRANTEE: ENDURING RESOURCES, LLC
475 – 17th Street, Suite 1500
Denver, Colorado 80202

By: _____

Its: VICE PRESIDENT

APPROVED AS TO FORM
MARK L. SHURTLEFF
ATTORNEY GENERAL

By: /s:/ Michelle McConkie
Special Assistant Attorney General

Director's Initial Review: K

STATE OF UTAH)
: §
COUNTY OF SALT LAKE)

On the 12th day of July, 2006, personally appeared before me Kevin S. Carter, who being duly sworn did say that he is the Director of the Utah School and Institutional Trust Lands Administration, and authorized to execute the above instrument.

Linda Bianchi
Notary Public, residing at:

My commission expires: 2/23/07

LINDA BIANCHI
NOTARY PUBLIC • STATE of UTAH
675 EAST 500 SOUTH, STE. 500
SALT LAKE CITY, UT 84102
COMM. EXP. 02-23-07

STATE OF Colorado)
City and
COUNTY OF Denver)
: §

On the 26th day of June, 2006, personally appeared before me Frank Hotto, who being duly sworn did say that he/she is the Vice President of Enduring Resources, LLC, and authorized to execute the above instrument.

Notary Public, residing at:
6860 South Salida Ct
Foxfield, CO 80016

My commission expires:
9-9-2006

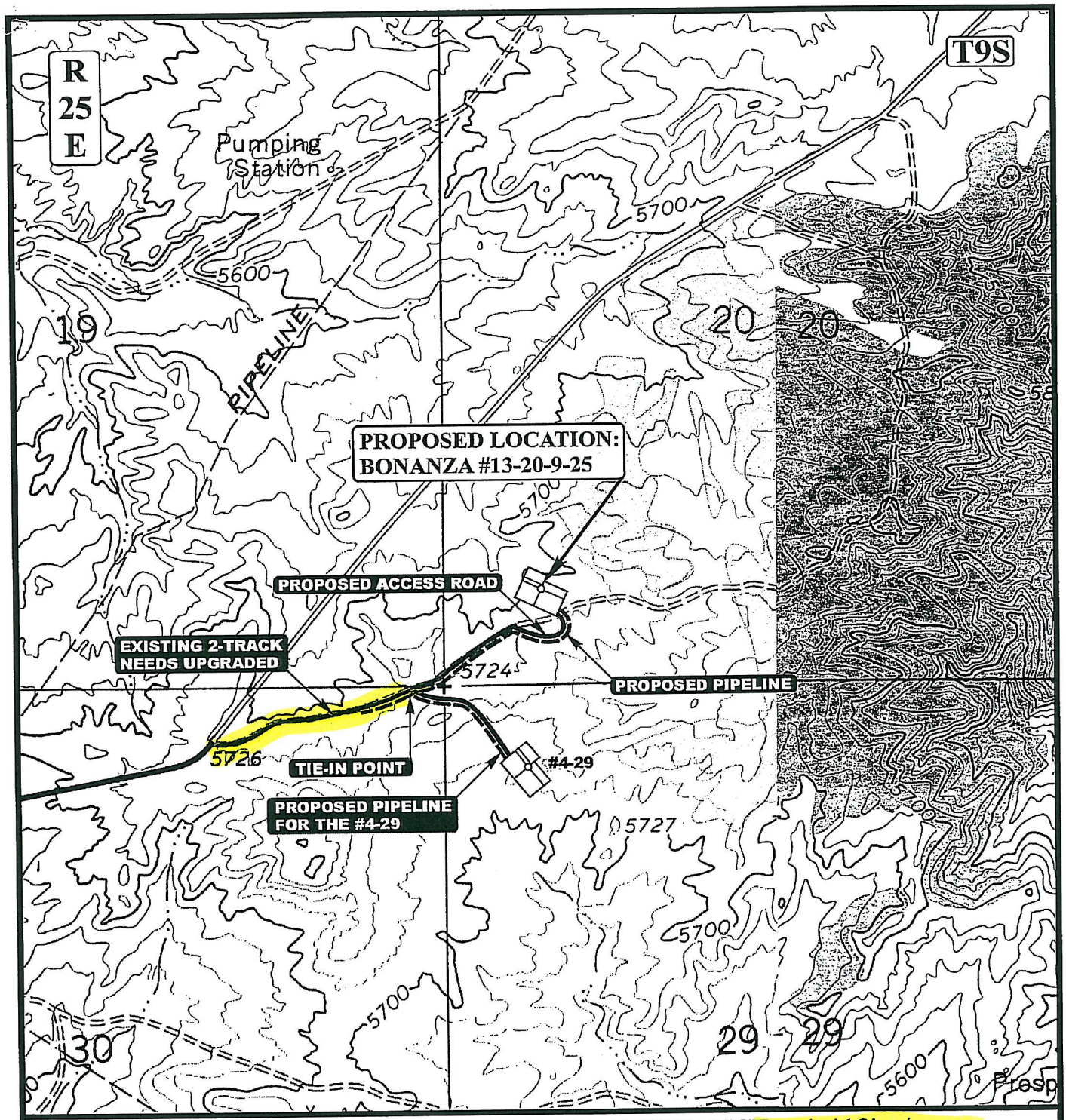
EASEMENT NO. 1046
Exhibit "A"

Grazing Permit No. 22609	William R. Robinson P.O. Box 1506 Vernal, UT 84078
Grazing Permit No. 22835	O.S. Wyatt, Jr. 8 Greenway Plaza, Suite 780 Houston, TX 77046
Easement No. 157	Colorado Interstate Gas P.O. Box 1087 Colorado Springs, CO 80944
Easement No. 375	Canyon Gas Resources, LLC 7400 East Orchard Rd., Suite 3025 Englewood, CO 80111
Easement No. 475	Mid-America Pipeline Company % Enterprise Products Company P.O. Box 4324 Houston, TX 77210
Easement No. 944	Canyon Gas Resources, LLC 7400 East Orchard Rd., Suite 3025 Englewood, CO 80111
Easement No. 1002	Enduring Resources, LLC 475 – 17th Street, Suite 1500 Denver, CO 80202
Mineral Lease No. 45557 Mineral Lease No. 45560	The Houston Exploration Company Suite 2000, 1100 Louisiana Houston, TX 77002
Mineral Lease No. 45557 Mineral Lease No. 45560	Enduring Resources, LLC 475 – 17th Street, Suite 1500 Denver, CO 80202

EASEMENT NO. 1046
Exhibit "A" (continued)

Mineral Lease No. 49104	Cliffs Synfuel Corp 550 E Division Street Ishpeming, MI 49849
Mineral Lease No. 49190	Retamco Operating Inc. Attn: Joe Glennon 3301 Stonewall Lane Billings, MT 59102
Special Use Lease No. 1088	Canyon Gas Resources, LLC 7400 East Orchard Rd., Suite 3025 Englewood, CO 80111
Special Use Lease No. 1260	American Gilsonite Company 292950 South Bonanza Highway Bonanza, UT 84008

'APIWellNo:43047502590000'



APPROXIMATE TOTAL PIPELINE DISTANCE = 1,412' +/-

LEGEND:

PROPOSED ACCESS ROAD

PROPOSED PIPELINE

PROPOSED PIPELINE (SERVICING OTHER WELLS)

N

ENDURING RESOURCES, LLC

BONANZA #13-20-9-25

SECTION 20, T9S, R25E, S.L.B.&M.

700' FSL 700' FWL

UELS

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078

(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	09 MONTH	13 DAY	05 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: C.P.	REVISED: 00-00-00		

'API Well No: 43047502590000'

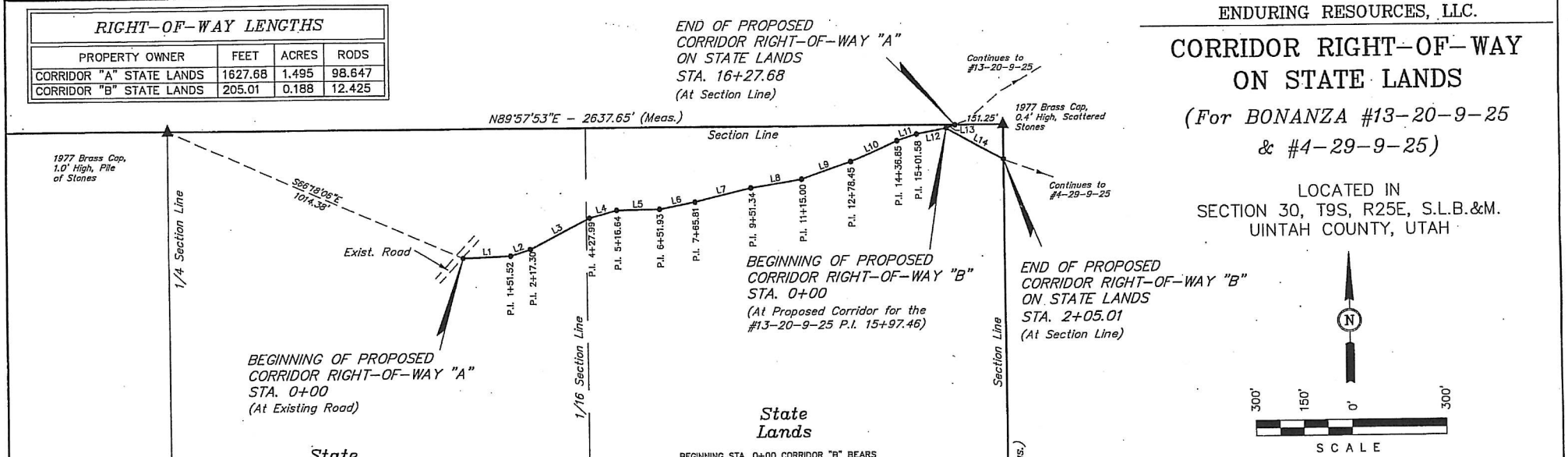
ENDURING RESOURCES, LLC.

CORRIDOR RIGHT-OF-WAY ON STATE LANDS

(For BONANZA #13-20-9-25 & #4-29-9-25)

LOCATED IN
SECTION 30, T9S, R25E, S.L.B.&M.
UINTAH COUNTY, UTAH

RIGHT-OF-WAY LENGTHS			
PROPERTY OWNER	FEET	ACRES	RODS
CORRIDOR "A" STATE LANDS	1627.68	1.495	98.647
CORRIDOR "B" STATE LANDS	205.01	0.188	12.425



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N87°44'01"E	151.52'
L2	N71°28'13"E	65.78'
L3	N62°14'25"E	210.69'
L4	N74°14'07"E	88.65'
L5	N89°10'50"E	135.29'
L6	N79°19'26"E	113.88'
L7	N76°19'30"E	185.53'
L8	N80°36'06"E	163.66'
L9	N71°11'01"E	163.45'
L10	N65°40'36"E	158.40'
L11	N72°01'50"E	64.73'
L12	N79°08'59"E	95.88'
L13	N69°37'22"E	30.22'
L14	S61°12'54"E	205.01'

BEGINNING STA. 0+00 CORRIDOR "B" BEARS S86°36'39"W 179.93' FROM THE NORTHEAST CORNER OF SECTION 30, T9S, R25E, S.L.B.&M.

END STA. 2+05.01 CORRIDOR "B" BEARS S00°01'43"E 109.35' FROM THE NORTHEAST CORNER OF SECTION 30, T9S, R25E, S.L.B.&M.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

CORRIDOR "A" RIGHT-OF-WAY DESCRIPTION

A 40' WIDE RIGHT-OF-WAY 20' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NW 1/4 NE 1/4 OF SECTION 30, T9S, R25E, S.L.B.&M. WHICH BEARS S66°18'06"E 1014.38' FROM THE NORTH 1/4 CORNER OF SAID SECTION 30, THENCE N87°44'01"E 151.52'; THENCE N71°28'13"E 65.78'; THENCE N62°14'25"E 210.69'; THENCE N74°14'07"E 88.65'; THENCE N89°10'50"E 135.29'; THENCE N79°19'26"E 113.88'; THENCE N76°19'30"E 185.53'; THENCE N80°36'06"E 163.66'; THENCE N71°11'01"E 163.45'; THENCE N65°40'36"E 158.40'; THENCE N72°01'50"E 64.73'; THENCE N79°08'59"E 95.88'; THENCE N69°37'22"E 30.22' TO A POINT IN THE NE 1/4 NE 1/4 OF SAID SECTION 30, WHICH BEARS S89°57'53"W 151.25' FROM THE NORTH 1/4 CORNER OF SAID SECTION 30. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 1.495 ACRES MORE OR LESS.

CORRIDOR "B" RIGHT-OF-WAY DESCRIPTION

A 40' WIDE RIGHT-OF-WAY 20' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NE 1/4 NE 1/4 OF SECTION 30, T9S, R25E, S.L.B.&M. WHICH BEARS S86°36'39"W 179.93' FROM THE NORTHEAST CORNER OF SAID SECTION 30, THENCE S61°12'54"E 205.01' TO A POINT ON THE EAST LINE OF THE NE 1/4 NE 1/4 OF SAID SECTION 30, WHICH BEARS S00°01'43"E 109.35' FROM THE NORTHEAST CORNER OF SAID SECTION 30. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.188 ACRES MORE OR LESS.

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

No. 161319
ROBERT L. KAY
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH - 200 EAST • (435) 789-1017
VERNAL, UTAH - 84078

SCALE	DATE
1" = 300'	04-13-06
PARTY: D.R. A.H. C.G.	REFERENCES: G.L.O. PLAT
WEATHER: COLD	FILE: 44589

'APIWellNo:43047502590000'

ENDURING RESOURCES, LLC.

ROAD RIGHT-OF-WAY ON STATE LANDS

(For BONANZA #5-20-9-25)

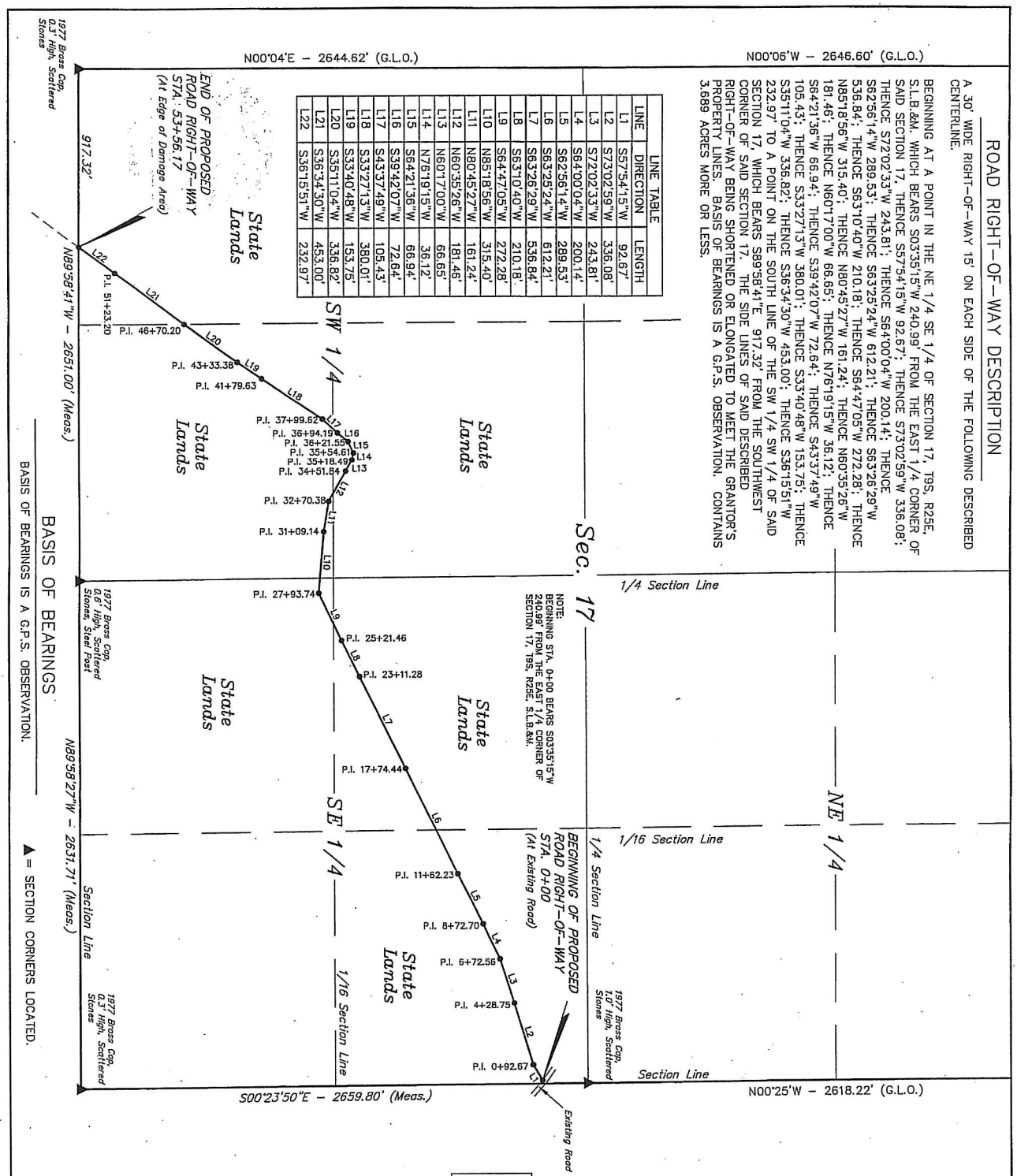
LOCATED IN
SECTION 17, T9S, R25E, S.L.B.&M.
UINTAH COUNTY, UTAH

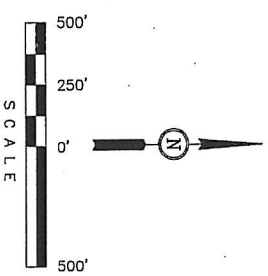
ROAD RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NE 1/4 SE 1/4 OF SECTION 17, T9S, R25E, S.L.B.&M. WHICH BEARS S03°35'15"W 240.99' FROM THE EAST 1/4 CORNER OF SAID SECTION 17, THENCE S57°54'15"W 92.67'; THENCE S73°02'59"W 336.08'; THENCE S72°02'33"W 243.81'; THENCE S64°00'04"W 200.14'; THENCE S62°56'14"W 289.53'; THENCE S63°25'24"W 612.21'; THENCE S63°26'29"W 536.84'; THENCE S63°10'40"W 210.18'; THENCE S64°47'05"W 272.28'; THENCE N85°18'56"W 315.40'; THENCE N80°45'27"W 161.24'; THENCE N60°35'26"W 181.46'; THENCE N60°17'00"W 66.65'; THENCE N76°19'15"W 36.12'; THENCE S64°21'36"W 66.94'; THENCE S39°42'07"W 72.64'; THENCE S43°37'49"W 105.43'; THENCE S33°27'13"W 380.01'; THENCE S33°40'48"W 153.75'; THENCE S35°11'04"W 336.82'; THENCE S36°34'30"W 453.00'; THENCE S36°15'51"W 232.97' TO A POINT ON THE SOUTH LINE OF THE SW 1/4 SW 1/4 OF SAID SECTION 17 WHICH BEARS S89°58'41"E 917.32' FROM THE SOUTHWEST CORNER OF SAID SECTION 17. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 3.689 ACRES MORE OR LESS.

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S57°54'15"W	92.67'
L2	S73°02'59"W	336.08'
L3	S72°02'33"W	243.81'
L4	S64°00'04"W	200.14'
L5	S62°56'14"W	289.53'
L6	S63°25'24"W	612.21'
L7	S63°26'29"W	536.84'
L8	S63°10'40"W	210.18'
L9	S64°47'05"W	272.28'
L10	N85°18'56"W	315.40'
L11	N80°45'27"W	161.24'
L12	N60°35'26"W	181.46'
L13	N60°17'00"W	66.65'
L14	N76°19'15"W	36.12'
L15	S64°21'36"W	66.94'
L16	S39°42'07"W	72.64'
L17	S43°37'49"W	105.43'
L18	S33°27'13"W	380.01'
L19	S33°40'48"W	153.75'
L20	S35°11'04"W	336.82'
L21	S36°34'30"W	453.00'
L22	S36°15'51"W	232.97'





RIGHT-OF-WAY LENGTHS

PROPERTY OWNER	FEET	ACRES	RODS
STATE LANDS	5356.17	3.689	324.616

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

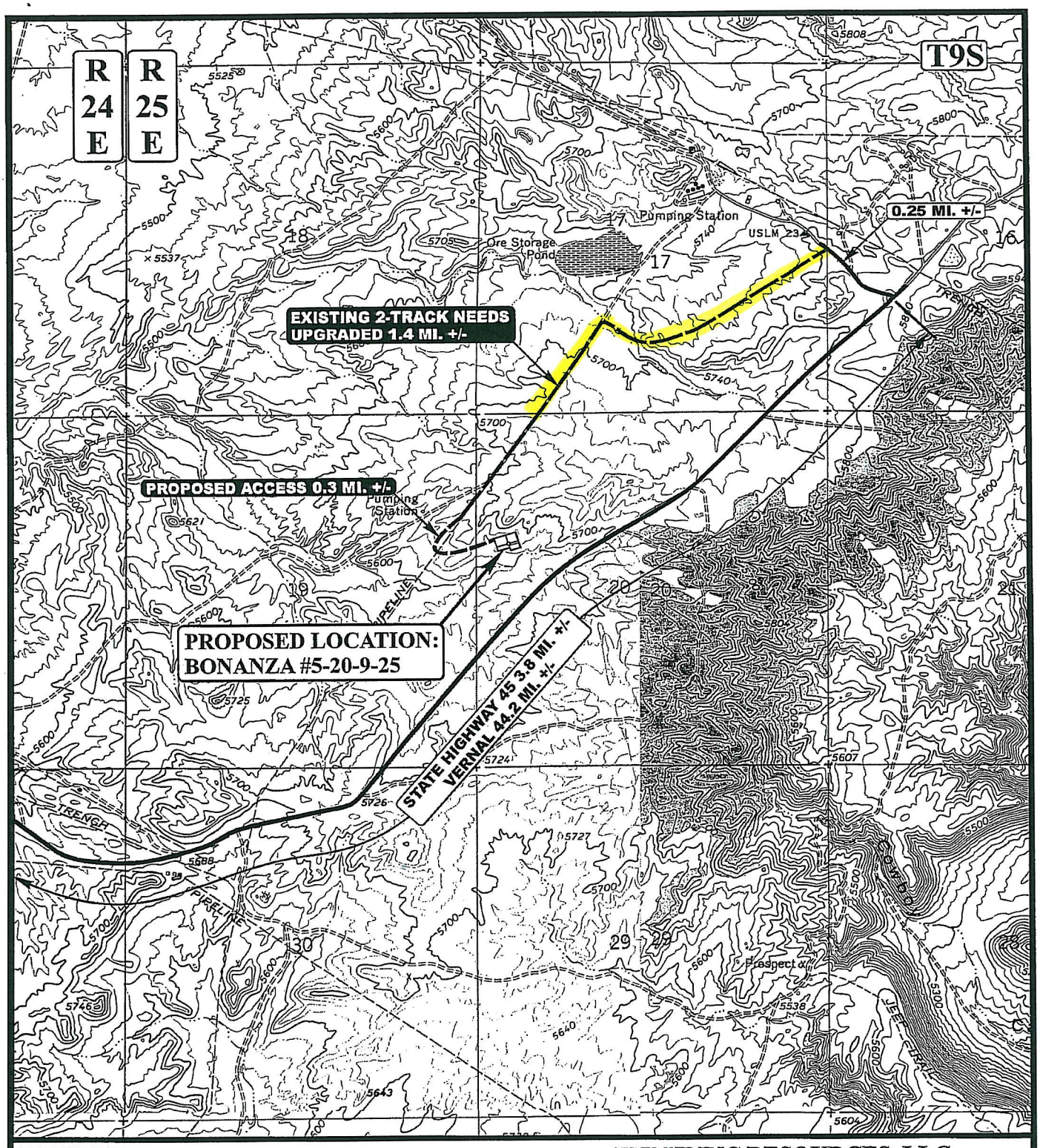
REGISTERED LAND SURVEYOR REGISTRATION NO. 161318 STATE OF UTAH

STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH – 200 EAST • (435) 789-1017
VERNAL, UTAH – 84078

SCALE	1" = 300'	DATE	04-13-06
PARTY	D.R. A.H. C.G.	REFERENCES	G.L.O. PLAT
WEATHER	COLD	FILE	4 4 5 8 8

'APIWellNo:43047502590000'



LEGEND:

EXISTING ROAD
PROPOSED ACCESS ROAD
EXISTING 2-TRACK NEEDS UPGRADED

N

ENDURING RESOURCES, LLC

BONANZA #5-20-9-25
SECTION 20, T9S, R25E, S.L.B.&M.
1952' FNL 472' FWL

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	09 MONTH	13 DAY	05 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: C.P.	REVISED: 00-00-00		

9-25-12-20

Enduring Resources, LLC
Bonanza #9-25-12-20
SWNW Sec. 20 T9S-R25E
Uintah County, Utah
Lease # ML-45558

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Directions to the proposed location are as follows:

PROCEED IN AN EASTERLY, THEN SOUTHERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.9 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 36.5 MILES ON STATE HIGHWAY 45 TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.25 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING TWO-TRACK ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATLEY 1.4 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION APPROXIMATELY 46.15 MILES IN A SOUTHEASTERLY DIRECTION.

2. Planned Access Roads:

The proposed access road will be approximately 3/10ths of a mile of new construction approximate 584' (ON-LEASE) and 1,000' OFF-LEASE (BLM). Access to the proposed new access road will by using existing roads. The first 1/4 mile of road after leaving Stanton Road is bladed, ditched and crowned, no upgrading is anticipated. The 1.4 miles of road before reaching the takeoff point of the new access road to be constructed, will need to be upgraded (bladed, ditched and crowned). Please refer to Topo Map "B" for the takeoff point for the new OFF-LEASE and ON-LEASE road construction.

The proposed access road will be utilized to transport personnel, equipment and supplies to and from the proposed well site during drilling, completion and production operations. The road will be utilized year round.

The access road will be crowned 2% to 3%, ditched and constructed with a running surface of 18 feet and a maximum disturbed width of 30 feet right-of-way. Maximum grade of road is 5% or less. Graveling or capping the roadbed will be performed as necessary to provided a well constructed, safe road. No fence crossings, culverts, turnouts, cattle guards or major cuts and fills are required. Prior to construction or

upgrading, the proposed road shall be cleared of any snow and allowed to dry completely.

Surface disturbance and vehicular traffic will be limited to the proposed location and proposed access route. Any additional area needed will be approved in advance. All construction shall be in conformance with the standards outlined in the BLM and Forest Service publication: *Surface Operating Standards for Oil and Gas Exploration and Development. 1989.*

The road surface and shoulders will be kept in a safe usable condition and will be maintained in accordance with the original construction standards. All drainage ditches will be kept clear and free flowing and will be maintained according to original construction standards. The access road surface will be kept free of trash during operations. All traffic will be confined to the approved disturbed surface. Road drainage crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the road bed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided. When snow is removed from the road during the winter months, the snow shall be pushed outside of the borrow ditches and the turnouts kept clear so that snowmelt will be channeled away from the road.

3. Location of Existing Wells within a One-Mile radius (See "Topo" Map "C" attached):

The following wells are wells located within a one (1) mile radius of the proposed location.

a.	None:	Water Wells:
b.	None:	Injection Wells:
c.	One:	Producing Wells: (Hoss #15, API#: 43-047-34756, SWSE of Sec. 20, T9S-R25E.
d.	None:	Drilling Wells:
e.	None:	Shut-in Wells:
f.	None:	Temporarily Abandoned Wells:
g.	None:	Disposal Wells:
h.	None:	Abandoned Wells:
i.	None:	Dry Holes:
j.	None:	Observation Wells:

4. Location of Existing and/or Proposed Facilities:

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e. production tanks, produced water tanks and/or heater treater). These dikes

will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank and be independent of the back cut.

All permanent (on site for six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the rocky Mountain Five State Inter-Agency Committee

All facilities will be painted within 6 months of installation. The color shall be Carlsbad Canyon (2.5Y 6/2). Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

Gas Gathering Pipeline:

a.	ON-LEASE	2,103'	State of Utah (SITLA)
b.	OFF-LEASE	1,300'	BLM

If the well is capable of economic production, a surface gas gathering line and related equipment shall be installed. The surface gas gathering line shall be in use year round. A total of approximately 3,403 feet of surface gas gathering pipeline shall be laid on the surface to minimize surface disturbance:

a. ON-LEASE approximately 2,103 feet (4 inch or less diameter steel), and
b. OFF-LEASE approximately 1,300 feet (4 inch or less diameter steel).

The proposed pipeline will begin at the well site; continue northeasterly to tie-in into an existing pipeline The line will be welded together and pulled from the well site location and tie-in point when practical; however, it may be necessary to utilize the access road for welding of the line. The line will then be boomed off to the side of the road. The gas meter run will be located within 500 feet of the wellhead. The meter run will be housed. The gas gathering line will be buried or anchored down from the wellhead to the meter.

Upon plugging and abandonment, the gas gathering line will be removed and the disturbed area will be re-contoured and restored as near as practical to the original condition. If necessary, re-seeding operations will be performed after completion of other reclamation operations.

5. Location and Type of Water Supply:

Water will be purchased from American Gilsonite from the following source. Water Right No. 49-222, Application/Claim No. A29909/a4958, Certificate No. 9915 ("AGC Water Right"). The AGC Water Right consists of nineteen underground water wells located in Sec.2, T10S, R24E, SLBM, piped to and stored in a cistern located in Section 25, T9S, R24E.

Water will be hauled to the location over the roads marked on "Topo" Maps "A" and "B."

No water well is to be drilled on this lease.

6 Source of Construction Materials:

Surface and subsoil materials in the immediate area will be utilized fro location and access road construction.

Any gravel will be obtained from a commercial source; however, gravel sized rock debris associated with location and access road construction may be used as access road surfacing material.

7. Methods of Handling Waste Materials:

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit well be constructed on the location and will not be located within natural drainage, where a flood hazard exits or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, brake or allow discharge of liquids.

The reserve pit will be lined with ¼ felt and a minimum of 16 mm plastic with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the will be disposed of in the pit.

A chemical portable toilet will be furnished with the drilling rig. The toilet will be replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

Garbage, trash and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash well will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported or disposed of in association with the drilling, completion or testing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in

threshold planning quantities, will be used, produced, stored, transported or disposed of in association with the drilling, completion or testing of this well.

Produced oil will be stored in an oil tank and then hauled by truck to a crude purchaser facility. Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to an approved disposal site.

8 Ancillary Facilities:

During drilling operations, approximately 20 days, the site will be a manned camp. Three or four additional trailers will be on location to serve as the crews' housing and eating facilities. These will be located on the perimeter of the pad site within the topsoil stockpiles. Refer to Sheet 4.

9. Well Site Layout: (Refer to Sheets #2, #3, and #4)

The attached Location Layout Diagrams described drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s) and surface material stockpiles(s).

Please see the attached diagram for rig orientation and access roads.

The top soil will be windrowed rather than piled. It will be reseeded and track walker at the time the location is constructed. Seeding will be with the determined during the onsite. (Refer to "Seed Mixture for Windrowed Top Soil Will included:" following herein.

The top soil removed from the pit area will be store separately and will not be reseeded until the pit is reclaimed.

All pits shall be fence to the following minimum standards:

a. 39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
b. The net wire shall be no more than 2 inches above the ground. The barbed wire shall be 3 inches over the new wire. Total height of the fence shall be at least 42 inches.
c. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
d. Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two fence posts shall be no greater than 16 feet.
e. All wire shall be stretched by, using a stretching device, before it is attached to corner posts.

f. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.
g. Location size may change prior to drilling the well due to the current rig

availability. If the proposed location is not large enough to accommodate the drilling, the location will be re-surveyed and a Form 9 will be submitted.

10. Plans for Surface Reclamation:

Producing Location:

a. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, materials, trash and debris not required for production.
b. Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 40CFR 3162.7.
c. Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.
d. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximated natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.
e. To prevent surface water(s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface 3 feet above surrounding round surface to allow the reclaimed pit area to drain effectively.
f. Upon completion of back filling, leveling and re-contouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

Dry Hole/Abandoned Location:

a. Abandoned well sites, roads and other disturbed areas will be restored as nearly as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions and re-establishment of vegetation as specified.
b. All disturbed surfaces will be re-contoured to the approximated natural contours with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. If necessary, re-seeding operations will be performed after completion of other reclamation operations.

Seed Mixture for Windrowed Top Soil Will Included:

The appropriate surface management agency will be contacted for the required seed mixture and dates.

11. Surface Ownership: Location, Access and Pipeline Route:

Wellsite: State of Utah School and Institutional Trust Lands Administration

Access: State of Utah School and Institutional Trust Lands Administration, and Bureau of Land Management

Pipeline: State of Utah School and Institutional Trust Lands Administration, and Bureau of Land Management

12. Other Information

Wildlife Stipulations:

None

Archeology:

A Cultural Resource Inventory Report is attached.

Paleontology:

A Paleontology Reconnaissance Report is attached.

If, during operations, any archaeological or historical sites, or any objects of antiquity (subject to the Antiquities Act of June 8, 1906) are discovered, all operations which would affect such sites will be suspended and the discovery reported promptly to the surface management agency.

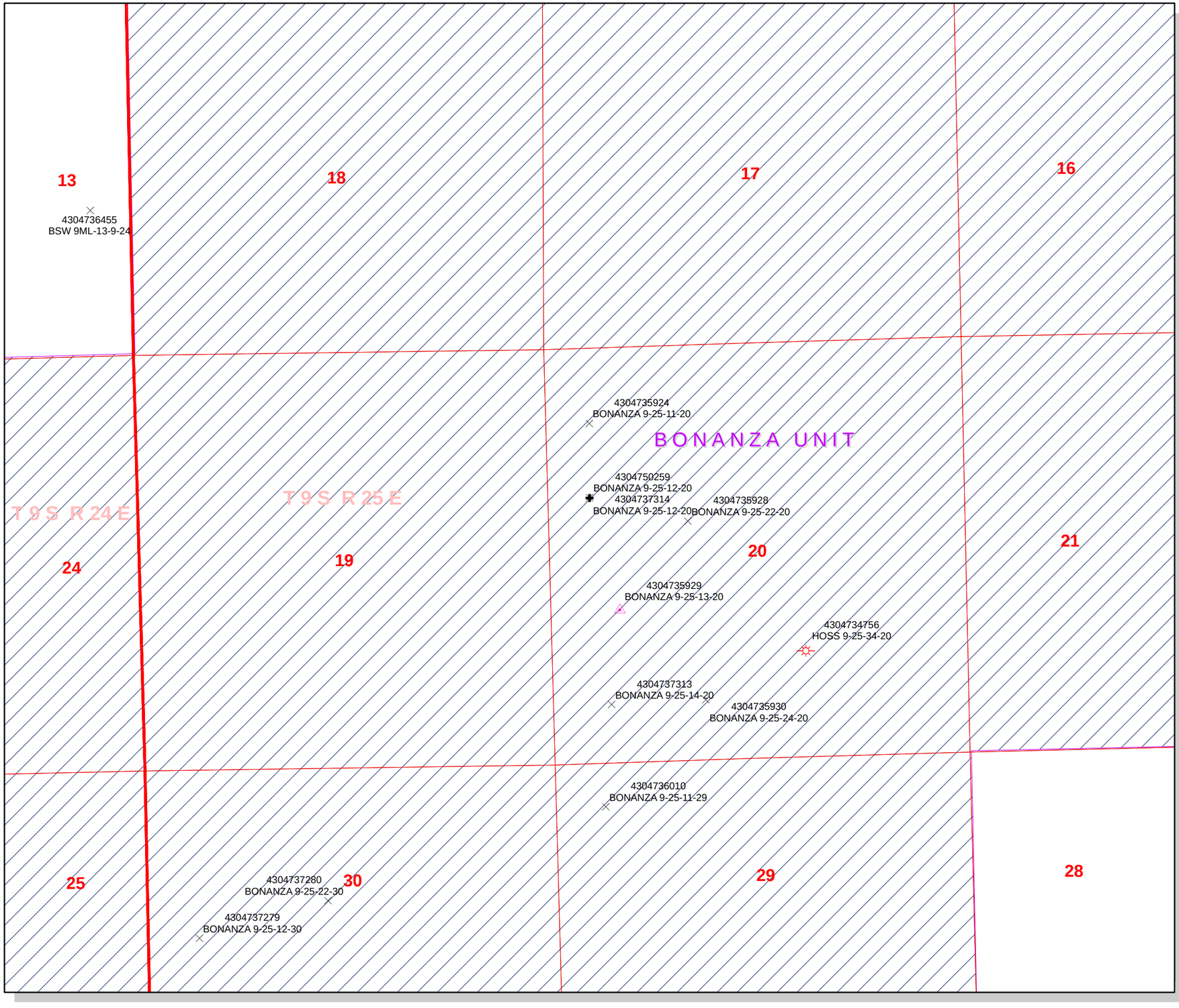
All lease operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, and the approved Plan of Operations and all applicable Notice to Lessees. The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved Application for Permit to Drill will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

13. Lessee's or Operator's Representatives:

Representatives:

Alvin R. (Al) Arlian
Landman – Regulatory Specialist
Enduring Resources, LLC
475 17th Street, Suite 1500
Denver, Colorado 80202
Office Tel: 303-350-5114
Fax Tel: 303-573-0461
aarlian@enduringresources.com

Carroll Estes
Utah Production Superintendent
Enduring Resources, LLC
759 East 500 South
Vernal, UT 84078
Office Tel: 435-781-0172
Fax Tel: 435-781 0174
cestest@enduringresources.com



API Number: 4304750259

Well Name: BONANZA 9-25-12-20

Township 09.0 S Range 25.0 E Section 20

Meridian: SLBM

Operator: ENDURING RESOURCES, LLC

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERMAL
- PP OIL
- SECONDARY
- TERMINATED

Fields
STATUS
- ACTIVE
- COMBINED
- Sections
- Township

Wells Query Events
- <all other values>

GIS_STAT_TYPE
- <Null>
- APD
- DRL
- GI
- GS
- LA
- NEW
- OPS
- PA
- PGW
- POW
- RET
- SGW
- SOW
- TA
- TW
- WD
- WI
- WS

N

1,700 850 0 1,700 Feet

1:15,560

'APIWellNo:43047502590000'

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

January 14, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2009 Plan of Development Bonanza Unit, Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following well is planned for calendar year 2009 within the Bonanza Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION

(Proposed PZ WASATCH)

43-047-50259 BONANZA 9-25-12-20 Sec 20 T09S R25E 1952 FNL 0472 FWL

This office has no objection to permitting the well at this time.

/s/ Michael L. Coulthard

bcc: File – Bonanza Unit
Division of Oil Gas and Mining
Central files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:1-14-09

From: Jim Davis
To: Bonner, Ed; Mason, Diana
Date: 2/11/2009 2:16 PM
Subject: Approval of one Enduring well

CC: Garrison, LaVonne

The following well has been approved by SITLA, including arch and paleo clearance.

Enduring Resources Bonanza 9-25-12-20 API 4304750259

FYI: This is a re-submital of an APD that was approved by SITLA previously. But it's a new API number and it's gone through the whole process again.
-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

BOPE REVIEW Enduring Resources, LLC BONANZA 9-25-12-20 43047502590000

Well Name	Enduring Resources, LLC BONANZA 9-25-12-20 43047502590000			
String	Cond	Surf	Prod	
Casing Size(")	14.000	8.625	4.500	
Setting Depth (TVD)	40	2000	6010	
Previous Shoe Setting Depth (TVD)	0	40	2000	
Max Mud Weight (ppg)	9.0	11.0	10.2	
BOPE Proposed (psi)	0	0	3000	
Casing Internal Yield (psi)	1000	2950	7780	
Operators Max Anticipated Pressure (psi)	3130		10.0	

Calculations	Cond String	14.000	"
Max BPH (psi)	.052*Setting Depth*MW=	19	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	14	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	10	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	10	NO
Required Casing/BOPE Test Pressure=		0	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

Calculations	Surf String	8.625	"
Max BPH (psi)	.052*Setting Depth*MW=	1144	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	904	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	704	NO No expected pressures (set depth in offsetting well)
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	713	NO
Required Casing/BOPE Test Pressure=		2000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

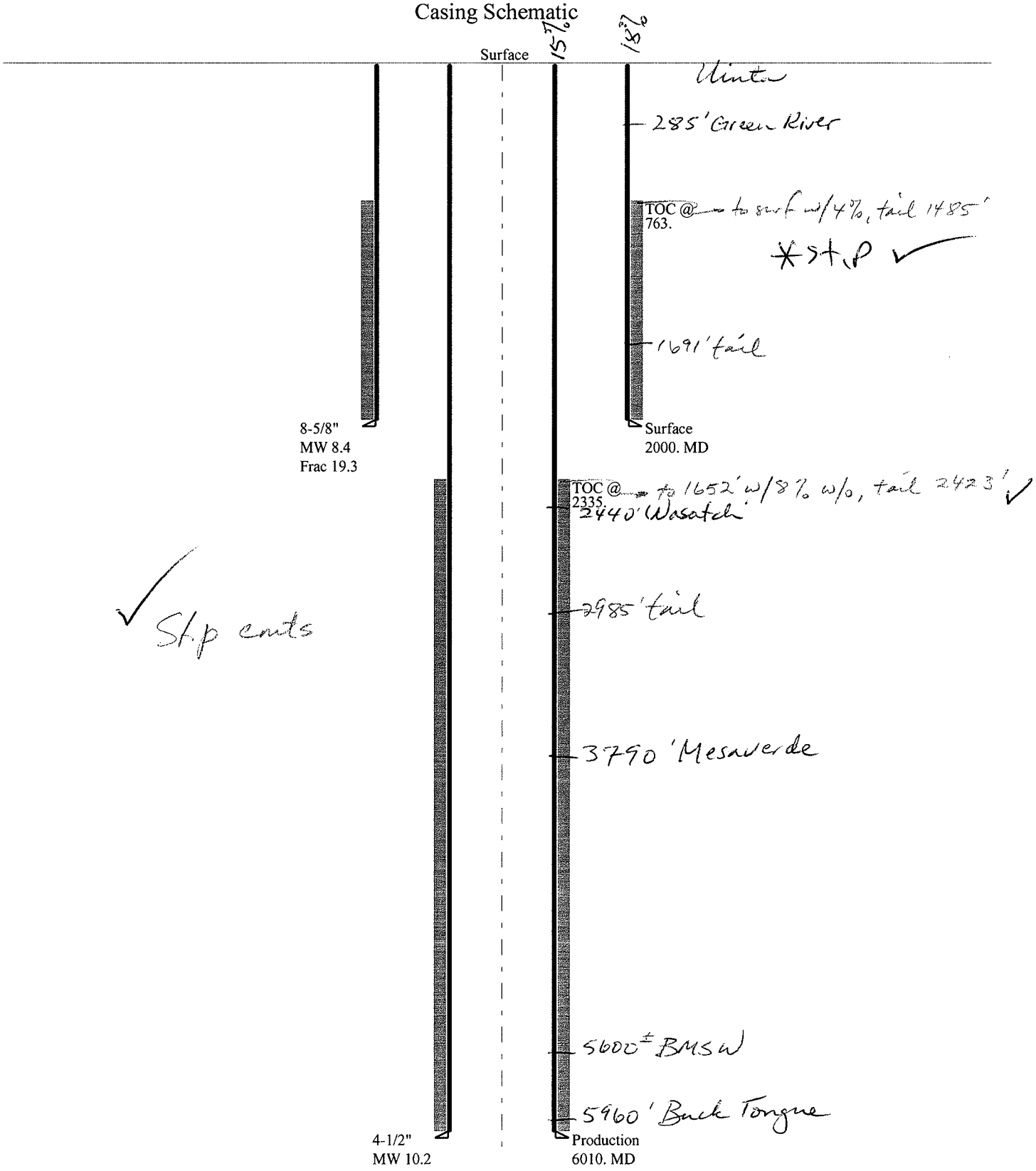
Calculations	Prod String	4.500	"
Max BPH (psi)	.052*Setting Depth*MW=	3188	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	2467	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1866	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	2306	NO Reasonable
Required Casing/BOPE Test Pressure=		3000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2000	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BPH (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

'APIWellNo:43047502590000'

43047502590000 BONANZA 9-25-12-20

Casing Schematic



'APIWellNo:43047502590000'

Well name:	**43047502590000 BONANZA 9-25-12-20**
Operator:	**Enduring Resources, LLC**
String type:	Surface
Project ID:	43-047-50259
Location:	UINTAH COUNTY

Design parameters:

Collapse
Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 1,760 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,000 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.000

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 1,748 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 102 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 763 ft

Non-directional string.

Re subsequent strings:
Next setting depth: 6,010 ft
Next mud weight: 10.200 ppg
Next setting BHP: 3,185 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,000 ft
Injection pressure: 2,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	2000	8.625	24.00	J-55	ST&C	2000	2000	7.972	10295

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	873	1370	1.570	2000	2950	1.48	48	244	5.08 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: February 10,2009
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 2000 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

'APIWellNo:43047502590000'

Well name:	**43047502590000 BONANZA 9-25-12-20**
Operator:	**Enduring Resources, LLC**
String type:	Production
Project ID:	43-047-50259
Location:	UINTAH COUNTY

Design parameters:

Collapse
Mud weight: 10.200 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 1,862 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 3,185 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.000

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 5,094 ft

Environment:
H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 158 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 2,335 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost ($)
1	6010	4.5	11.60	N-80	LT&C	6010	6010	3.875	24752

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	3185	6350	1.994	3185	7780	2.44	69.7	223	3.20 J

Prepared by: Helen Sadik-Macdonald, Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: February 10,2009
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 6010 ft, a mud weight of 10.2 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION
Utah Division of Oil, Gas and Mining

Operator	ENDURING RESOURCES, LLC				
Well Name	BONANZA 9-25-12-20				
API Number	43047502590000	**APD No**	1258	**Field/Unit**	WILDCAT
Location: 1/4,1/4	SWNW **Sec** 20 **Tw** 9.0S **Rng** 25.0E 1952 FNL 472 FWL				
GPS Coord (UTM)	659410 4431806	**Surface Owner**			

Participants

Floyd Bartlett (DOGM), Ben Williams and Pat Rainbolt (UDWR), Carroll Estes (Enduring Resources).

Regional/Local Setting & Topography

The general area is an undesignated oil field area of Uintah County in the Coyote Wash drainage. Bonanza, Utah is approximately 4.4 road miles to the southwest and Vernal, Utah is approximately 37 air miles to the northwest. Active as well as historic gilsonite mines exist in the area. The area is characterized by rolling hills and benches, which are frequently intersected by draws that are secondary drainages of Coyote Wash. The draws are occasionally rimed with steep side hills, which may have exposed sand stone bedrock cliffs along the rims. The bottom of Coyote Wash is wide and contains an intermittent stream. These intermittent flows occasionally reach the White River that is westerly approximately 20 miles. Access to the proposed well site is by existing roads except for 1.4 miles of existing 2-track which will require improvement and 0.5 miles of new road to be constructed.

SITLA owns both the surface and the minerals. The well pad is proposed across the bottom of a wide swale. The swale extends down slope from the northeast to the southwest. Moderately steep side-slopes forming ridges extend along both sides of the swale. The terrain becomes gentler immediately beyond the location to the south then steepens into a deeper draw. Cut will be moved from both sides of the swale into the bottom as fill to form the pad. The center location is on 4 feet of fill. Compaction is required to obtain a stable fill. The reserve pit is located on the southheast side of the location with the portion nearest to the center stake in a fill. Again compaction as well as a 20-mil liner are required. A diversion is planned around the north and west sides of the location. No stability problems are anticipated with the pad and pit as proposed if the required level of compaction is achieved. No seeps, springs or streams are in the immediate area. The main drainage of Coyote Wash is approximately 3 mile to the northwest.

Jim Davis and Ed Bonner of SITLA were invited to the pre-site evaluation. Neither attended.

Surface Use Plan

Current Surface Use
Grazing
Recreational
Wildlfe Habitat

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.5	**Width** 260 **Length** 345	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Vegetation in the area is dominated by big sagebrush. Cheatgrass, rabbit brush, broom snakeweed, halogeton, shadscale, a few juniper and spring annuals also exist

Antelope, deer, domestic sheep, rabbits, coyotes, and small mammals, birds and raptors.

Soil Type and Characteristics

Moderately deep sandy loam with a few rock. Bedrock outcrops occur on the ridge on the reserve pit side.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues Y

The center location is on 4 feet of fill. Compaction is required to obtain a stabile fill.

Drainage Diverson Required? Y

A diversion is planned around the north and west sides of the location.

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? **Paleo Potental Observed?** N **Cultural Survey Run?** **Cultural Resources?**

Reserve Pit

Site-Specific Factors		Site Ranking	
Distance to Groundwater (feet)	100 to 200	5	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)	>1320	0	
Native Soil Type	Mod permeability	10	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	20	1 Sensitivity Level

Characteristics / Requirements

A 75' x 150' x 12' deep reserve pit is planned on the southeast corner of the location. Most of the pit will be in a cut except the west end which will be supported by the pad and a 20-foot wide bench. The pit requires a 20-mil liner and an appropriate thickness of felt as a sub liner

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 20 **Pit Underlayment Required?** Y

Other Observations / Comments

Floyd Bartlett 2/9/2009

Evaluator	Date / Time

Application for Permit to Drill
Statement of Basis

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
1258	43047502590000	LOCKED	GW	S	No
Operator	ENDURING RESOURCES, LLC		**Surface Owner-APD**		
Well Name	BONANZA 9-25-12-20		**Unit**	BONANZA	
Field	WILDCAT		**Type of Work**	DRILL	
Location	SWNW 20 9S 25E S 1952 FNL 472 FWL		GPS Coord (UTM)	659412E	4431802N

Geologic Statement of Basis

Enduring proposes to set 2,000 feet of surface casing cemented to the surface. The base of the moderately saline water is estimated at 5,700 feet. A search of Division of Water Rights records shows 1 water well within a 10,000 foot radius of the proposed location. The well is located approximately 1 mile NE of the proposed location. Depth is listed as 1,000-5,000' and used for livestock and domestic consumption. The surface formation at this location is the Uinta Formation overlaying the Green River Formation. The Uinta Formation is made up of discontinuous sands interbedded with shales and are not expected to produce prolific aquifers. The Green River Formation is made up of interbedded limestones, shales and sandstones. Fresh water aquifers can be found in the Green River Formation and should be protected. The proposed surface casing should adequately protect any potentially useable aquifers. Production casing cement should be brought up above the base of the moderately saline ground water.

Brad Hill	2/18/2009
APD Evaluator	**Date / Time**

Surface Statement of Basis

The general area is an undesignated oil field area of Uintah County in the Coyote Wash drainage. Bonanza, Utah is approximately 4.4 road miles to the southwest and Vernal, Utah is approximately 37 air miles to the northwest. Active as well as historic gilsonite mines exist in the area. The area is characterized by rolling hills and benches, which are frequently intersected by draws that are secondary drainages of Coyote Wash. The draws are occasionally rimed with steep side hills, which may have exposed sand stone bedrock cliffs along the rims. The bottom of Coyote Wash is wide and contains an intermittent stream. These intermittent flows occasionally reach the White River that is westerly approximately 20 miles. Access to the proposed well site is by existing roads except for 1.4 miles of existing 2-track which will require improvement and 0.5 miles of new road to be constructed.

SITLA owns both the surface and the minerals. The well pad is proposed across the bottom of a wide swale. The swale extends down slope from the northeast to the southwest. Moderately steep side-slopes forming ridges extend along both sides of the swale. The terrain becomes gentler immediately beyond the location to the south then steepens into a deeper draw. Cut will be moved from both sides of the swale into the bottom as fill to form the pad. The center location is on 4 feet of fill. Compaction is required to obtain a stabile fill. The reserve pit is located on the southheast side of the location with the portion nearest to the center stake in a fill. Again compaction as well as a 20-mil liner are required. A diversion is planned around the north and west sides of the location. No stability problems are anticipated with the pad and pit as proposed if the required level of compaction is achieved. No seeps, springs or streams are in the immediate area. The main drainage of Coyote Wash is approximately 3 mile to the northwest.

Jim Davis and Ed Bonner of SITLA were invited to the pre-site evaluation. Neither attended. Ben Williams and Pat Rainbolt represented the UDWR. The area is classified as substantial value habitat for both antelope and deer. They made no recommendations for restrictions for either of these species. No other wildlife are expected to be significantly effected. Mr Rainbolt gave Mr. Estes of Enduring Resources a written wildlife evaluation and a recommended seed mix to be used when re-vegetating the location.

A 75' x 150' x 12' deep reserve pit is planned on the southeast corner of the location. Most of the pit will be in a cut except the west end which will be supported by the pad and a 20-foot wide bench. The pit requires a 20-mil liner and an appropriate thickness of felt as a sub liner

Floyd Bartlett	2/9/2009
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED:	1/12/2009	**API NO. ASSIGNED:**	43047502590000
WELL NAME:	Bonanza 9-25-12-20		
OPERATOR:	Enduring Resources, LLC (N2750)	**PHONE NUMBER:**	303 350-5114
CONTACT:	Alvin Arlian		
PROPOSED LOCATION:	SWNW 20 090S 250E	**Permit Tech Review:**	☑
SURFACE:	1952 FNL 0472 FWL	**Engineering Review:**	☑
BOTTOM:	1952 FNL 0472 FWL	**Geology Review:**	☑
COUNTY:	UINTAH		
LATITUDE:	40.02328	**LONGITUDE:**	-109.13194
UTM SURF EASTINGS:	659412.00	**NORTHINGS:**	4431802.00
FIELD NAME:	WILDCAT		
LEASE TYPE:	3 - State		
LEASE NUMBER:	ML-45558	**PROPOSED FORMATION:**	BUKCN
SURFACE OWNER:	3 - State	**COALBED METHANE:**	NO

RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** STATE/FEE - RLB0008031
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** 49-222
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

LOCATION AND SITING:

- ☐ **R649-2-3.**
  - **Unit:** BONANZA
- ☑ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**
  - **Board Cause No:** R649-3-2
  - **Effective Date:**
  - **Siting:**
- ☐ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:
5 - Statement of Basis - bhill
12 - Cement Volume (3) - hmacdonald
25 - Surface Casing - hmacdonald

JON M. HUNTSMAN, JR.
Governor
GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: BONANZA 9-25-12-20
API Well Number: 43047502590000
Lease Number: ML-45558
Surface Owner: STATE
Approval Date: 3/19/2009

Issued to:
Enduring Resources, LLC, 475 17th Street, Suite 1500, Denver, CO 80202

Authority:
Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-2.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
Cement volume for the 4 1/2 production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 300' above surface shoe as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to spudding the well - contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program - contact

API Well No: 43047502590000

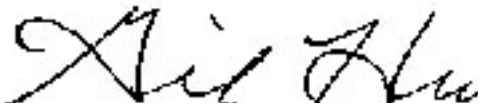
Dustin Doucet
- Prior to commencing operations to plug and abandon the well - contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:
- Plugging and abandonment or significant plug back of this well - contact Dustin Doucet
- Any changes to the approved drilling plan - contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):
- Dan Jarvis at: (801) 538-5338 office
  (801) 942-0871 home
- Carol Daniels at: (801) 538-5284 office
- Dustin Doucet at: (801) 538-5281 office
  (801) 733-0983 home

Reporting Requirements:
All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

Approved By:



Gil Hunt
Associate Director, Oil & Gas

API Well No: 43047502590000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-45558

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: BONANZA

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: BONANZA 9-25-12-20

2. NAME OF OPERATOR: Enduring Resources, LLC

9. API NUMBER: 43047502590000

3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 , Denver, CO, 80202

PHONE NUMBER: 303 350-5114 Ext

9. FIELD and POOL or WILDCAT: WILDCAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1952 FNL 0472 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 20 Township: 09.0S Range: 25.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 3/19/2010	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Request for an one-year extension to the APD termination date.

Approved by the Utah Division of Oil, Gas and Mining

Date: March 25, 2010

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Alvin Arlian	303 350-5114	Landman-Regulatory
SIGNATURE N/A		**DATE** 3/19/2010

RECEIVED March 19, 2010

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047502590000

API: 43047502590000
Well Name: BONANZA 9-25-12-20
Location: 1952 FNL 0472 FWL QTR SWNW SEC 20 TWNP 090S RNG 250E MER S
Company Permit Issued to: ENDURING RESOURCES, LLC
Date Original Permit Issued: 3/19/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
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- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Approved by the Utah Division of Oil, Gas and Mining

Signature: Alvin Arlian **Date:** 3/19/2010
Title: Landman-Regulatory **Representing:** ENDURING RESOURCES, LLC

Date: March 25, 2010
By: Dustin Doucet

RECEIVED March 19, 2010

API Well No: 43047502590000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-45558

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: BONANZA

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: BONANZA 9-25-12-20

2. NAME OF OPERATOR: Enduring Resources, LLC

9. API NUMBER: 43047502590000

3. ADDRESS OF OPERATOR: 475 17th Street, Suite 1500 , Denver, CO, 80202

PHONE NUMBER: 303 350-5114 Ext

9. FIELD and POOL or WILDCAT: WILDCAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1952 FNL 0472 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 20 Township: 09.0S Range: 25.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 3/19/2010	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
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Request for an one-year extension to the APD termination date.

Approved by the Utah Division of Oil, Gas and Mining

Date: March 25, 2010

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Alvin Arlian	303 350-5114	Landman-Regulatory
SIGNATURE N/A		**DATE** 3/19/2010

RECEIVED March 19, 2010

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047502590000

API: 43047502590000
Well Name: BONANZA 9-25-12-20
Location: 1952 FNL 0472 FWL QTR SWNW SEC 20 TWNP 090S RNG 250E MER S
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Approved by the Utah Division of Oil, Gas and Mining

Signature: Alvin Arlian **Date:** 3/19/2010
Title: Landman-Regulatory **Representing:** ENDURING RESOURCES, LLC

Date: March 25, 2010
By: Dustin Doucet

RECEIVED March 19, 2010

API Well No: 43047502590000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: ML-45558

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COUNTY: UINTAH

STATE: UTAH

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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Request an one-year extension to APD termination date.

Approved by the Utah Division of Oil, Gas and Mining

Date: 03/07/2011

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Alvin Arlian	303 350-5114	Landman-Regulatory
SIGNATURE N/A		**DATE** 3/4/2011

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047502590000

API: 43047502590000
Well Name: BONANZA 9-25-12-20
Location: 1952 FNL 0472 FWL QTR SWNW SEC 20 TWNP 090S RNG 250E MER S
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Signature: Alvin Arlian **Date:** 3/4/2011
Title: Landman-Regulatory **Representing:** ENDURING RESOURCES, LLC

RECEIVED Mar. 04, 2011

GARY R. HERBERT
Governor
GREG BELL
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

March 14, 2012

Al Arlian
Enduring Resources, LLC
511-16th Street, Ste. 700
Denver, CO 80202

Re: APDs Rescinded for Enduring Resources, LLC.
Uintah County

Dear Mr. Arlian:

Enclosed find the list of APDs that you requested to be rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded, effective March 5, 2012.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason
Environmental Scientist

cc: Well File
Bureau of Land Management, Vernal
SITLA, Ed Bonner

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR OIL, GAS & MINING

43-047-50258	BONANZA 9-24-34-3
43-047-50259	BONANZA 9-25-12-20
43-047-50285	BONANZA 9-23-13-11
43-047-39153	ASPHALT WASH 11-24-23-5
43-047-39164	ASPHALT WASH 11-24-41-7
43-047-39165	ASPHALT WASH 11-24-13-5
43-047-39166	ASPHALT WASH 11-24-24-5
43-047-37868	ASPHALT WASH FED 11-23-33-12